

Service Manual LCD TV

CHASSIS : SL-210P

**Model : DLP-2612
DLP-3212**

Caution

: In this Manual, some parts can be changed for improving. their performance without notice in the parts list. So, if you need the latest parts information, please refer to PPL(Parts Price List)in Service Information Center.

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1. Safety Precautions

- (1) When moving or laying down a LCD Set, please deal with care. Avoid any impact towards the LCD Set.
- (2) Do not leave the broken LCD Set on for a long time. To prevent any further damages, after check the broken Set 's condition, make sure to turn the power (AC) off.
- (3) When opening the BACK COVER, turn off the power (AC) to prevent electric shock.
- (4) When loosening screws, check the connecting position and type of the screw. Sort out the screws and store them separately. Because screws holding PCB are working as electric circuit GROUNDING, make sure to check if any screw is missing when assembling.
- (5) A LCD Set contain different kind of connector cables. When connecting or disconnecting connector cables, check the direction and position of the cable beforehand.
- (6) When disconnecting connectors, unplug the connectors slowly with care.
- (7) Connectors are designed so that if the number of pins or the direction does not match, connectors will not fit. When having problem in plugging the connectors, make sure to check their kind, position, and direction.

2. Product Specification

2-1. SPECIFICATION

		DLP-2612	DLP-3212
LCD Panel	Screen Size	26"	32"
	Aspect Ratio	16:9	16:9
	Resolution	1366 × 768 (WXGA)	1366 × 768 (WXGA)
	Pixel Pitch	0.4215mm	0.51075mm
	Contrast Ratio	800:1	800:1
TV System	Receiving System	PAL, SECAM	PAL, SECAM
	Stereo System	2-Carrier/NICAM	2-Carrier/NICAM
	Channel Memory	99ch, Auto Preset	99ch, Auto Preset
INPUT Connector	RF	75 Ohm Coaxial	75 Ohm Coaxial
	S-Video	1	1
	Scart	2	2
	Component	RCA × 2	RCA × 2
	PC RGB	D-Sub × 1	D-Sub × 1
	PC Audio	3.5mm Mini-Jack	3.5mm Mini-Jack
	DVI	1	1
OUTPUT Connector	Monitor-out	1	1
	Headphone	3.5mm Mini-Jack	3.5mm Mini-Jack
	RF-out	1	1
SOUND OUTPUT		8W	8W
Power Consumption	Max.	140W	170W
	Power Source	220-240V~50Hz	220-240V~50Hz
Dimension (W × H × D)	Set Dimension (Contain Stand)	(850 × 518 × 231)mm	(990 × 588.5 × 231)

Product Specification

2-2. Available Input Signal

(1) PC/DVI/COMPONENT

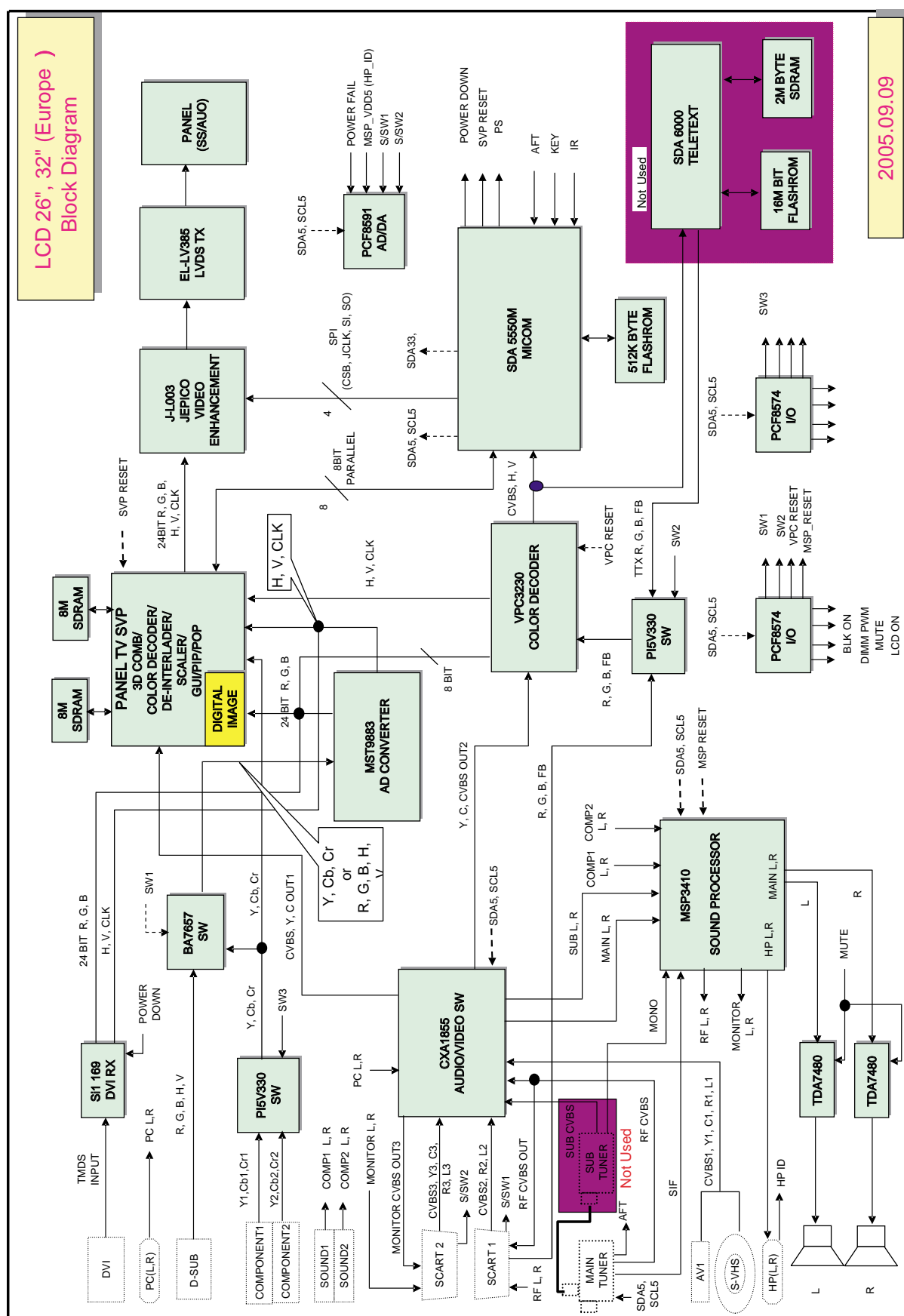
RESOLUTION	V-freq	DVI	D-SUB	COMPONENT	REMARK
640 × 480	60	○	○	×	IBM, VGA
	66	○	○	×	APPLE, MAC66
	72	○	○	×	VESA
	75	○	○	×	VESA
720 × 400	70	○	○	×	IBM, VGA
	85	○	○	×	IBM, XGA2
800 × 600	60	○	○	×	VESA
	75	○	○	×	VESA
	85	○	○	×	VESA
832 × 624	74	○	○	×	MAC74
1024 × 768	60	○	○	×	VESA
	70	○	○	×	VESA
720P(1280 × 720)	50	○	○	○	
	60	○	○	○	
1080i(1920 × 1080)	50	○	○	○	
	60	○	○	○	
576P(704 × 576)	50	○	○	○	
480P(720 × 480)	60	×	×	○	
576i(704 × 576)	50	×	×	○	
480i(720 × 480)	60	×	×	○	

(2) VIDEO

- PAL, PAL-M, PAL-N
- NTSC, NTSC4.43
- SECAM

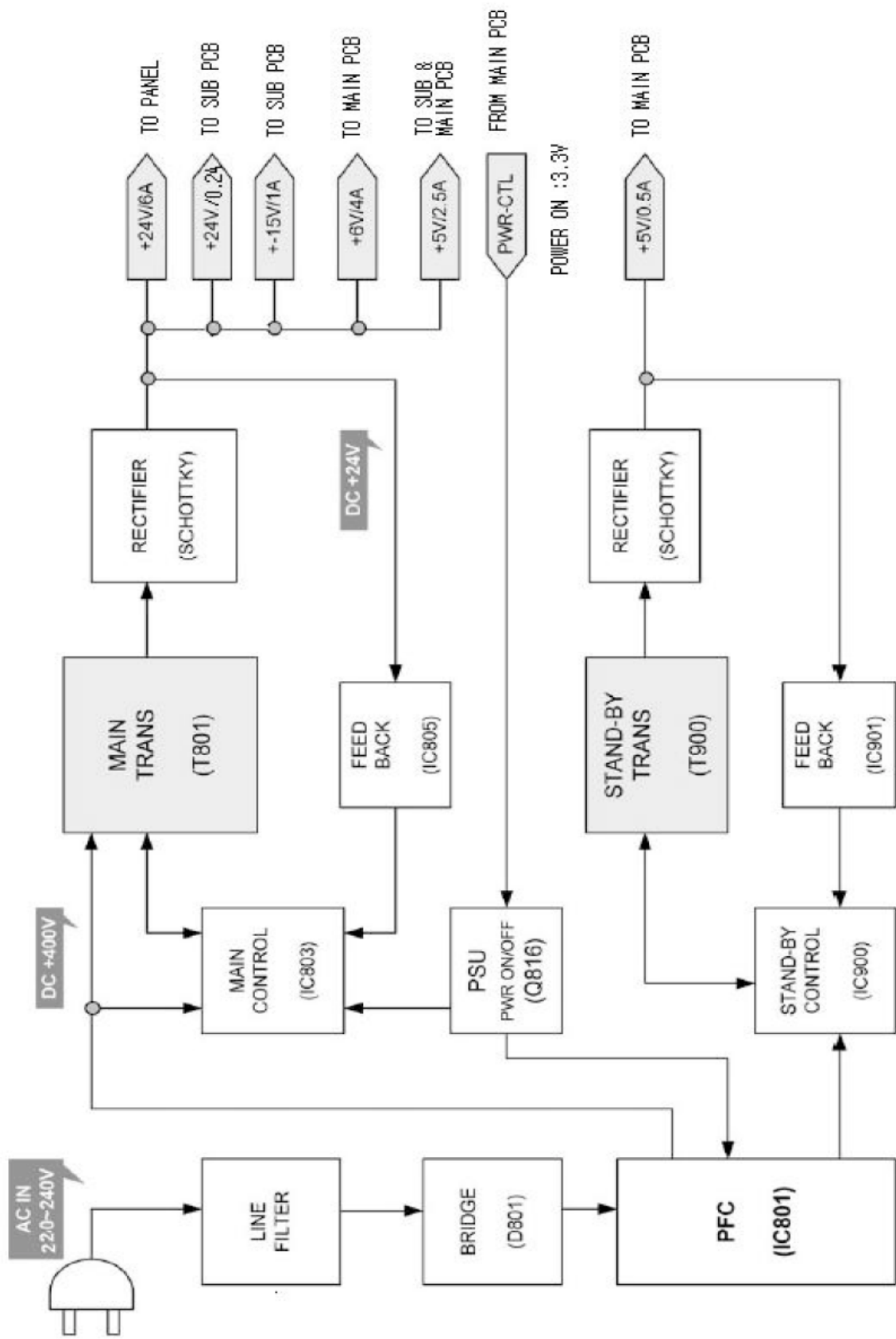
3. Block Diagram

3-1. MAIN BLOCK DIAGRAM



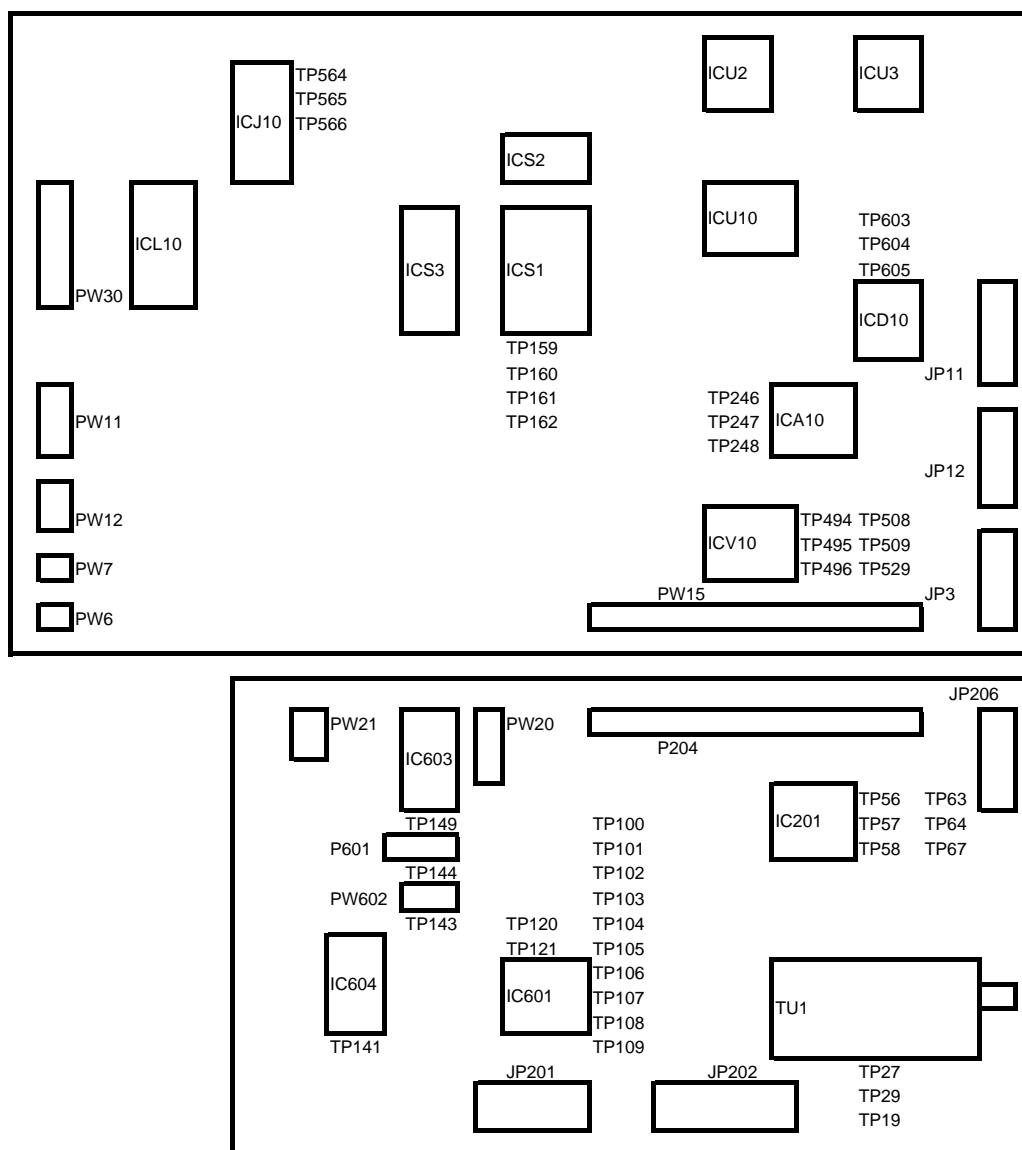
Block Diagram

3-2. POWER BLOCK DIAGRAM



4. Description of Each BLOCK

4-1. Block Diagram of main IC and TP



4-2. Overview

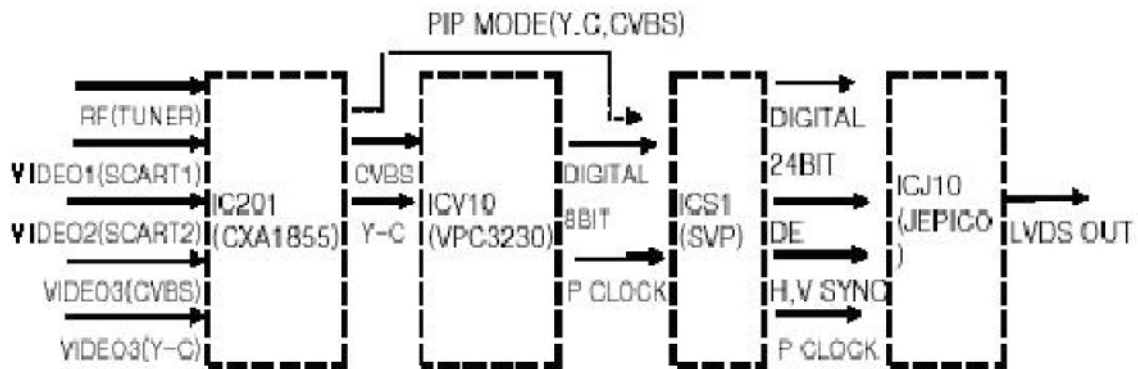
A/V block (Main and Sub PCB) is Multi Media circuit board that can process various input signals such as video, component, PC, DVI, and analog TV signal. It is mainly composed of switching, sync processing, decoding, analog TV, digital image processing, and system control part.

4-2-1. Composite video, Y/C(S-Video) and SCART(CVBS, RGB) composite video

Y/C(S-Video) and SCART(CVBS) have similar signal paths. For the Main signal, IC201 receives these inputted signals and switches out a selected signal. Then the signal goes into ICV10 for video processing, SCART(RGB) signal goes directly into ICV10. The output of ICV10 goes through ICS1 for de-interlacing and digital image processing respectively. However, at PIP mode, sub signal has a little bit different path from the Main signal. First of all, IC201 receives input signals such as composite video, Y/C or etc, and switches out the selected signal like as the Main signal. But the selected signal goes into ICS1 for video processing and image processing instead of going into ICV10.

Description of Each BLOCK

-Flow Chart of RF, Video, S-Video Signal



- Main Signal

- A. IC201 : Switching IC (Input: analog inputs, Output: an analog output)
- B. ICV10 : Color Decoder (Input: Y/C, CVBS, R/G/B, Output: 8bit digital, H/V)
- C. ICS1 : Color Decoder/Image Processor (Input: 8bit Digital or 24bit Digital R/G/B, H/V, Output: 24bit Digital R/G/B, H/V)

-Main TP (Input: Color Bar Pattern)

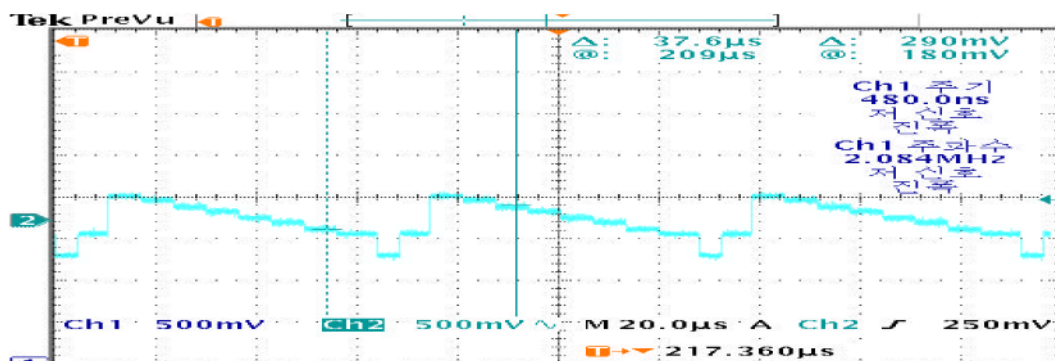
CCV15(Y Signal), CCV14(C Signal), CCV16(CVBS Signal)

RCS12(Horizontal sync), RCS13(Vertical sync), RCS14(Clock) RCS15(Data enable)

-Sub Signal(In PIP mode)

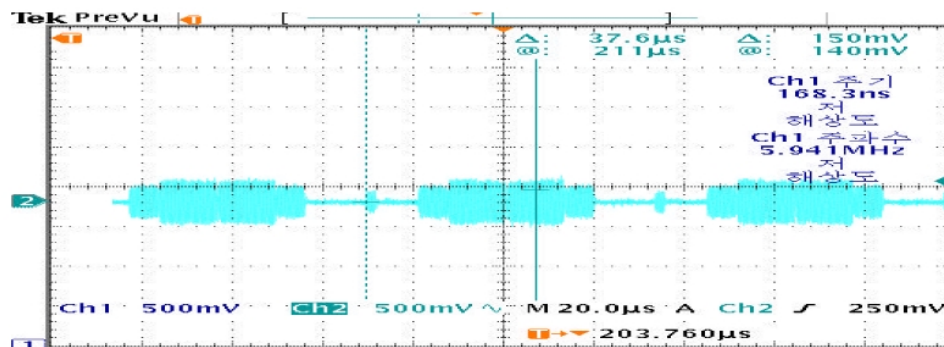
- A. IC201: Switching IC (Input: analog inputs, Output: an analog output)
- B. ICS1: Color Decoder/Image Processor (Input: 8bit Digital or 24bit Digital R/G/B, H/V, Output: 24bit Digital R/G/B, H/V)

Y signal (input to ICV10)
Location: LCV13

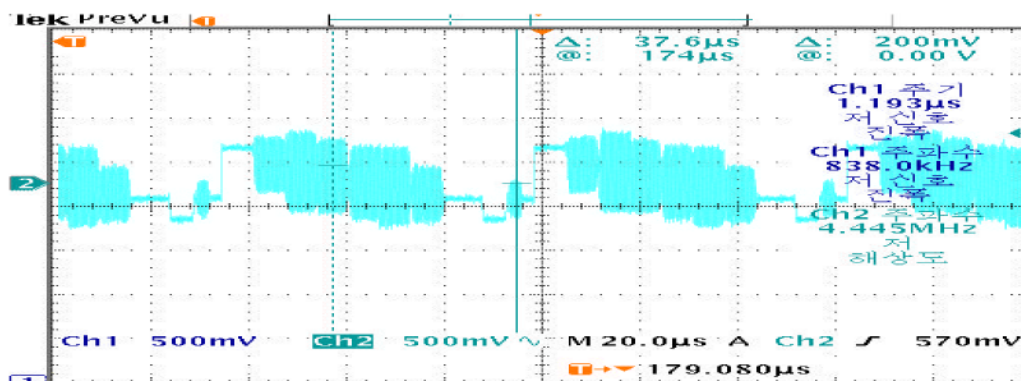


Description of Each BLOCK

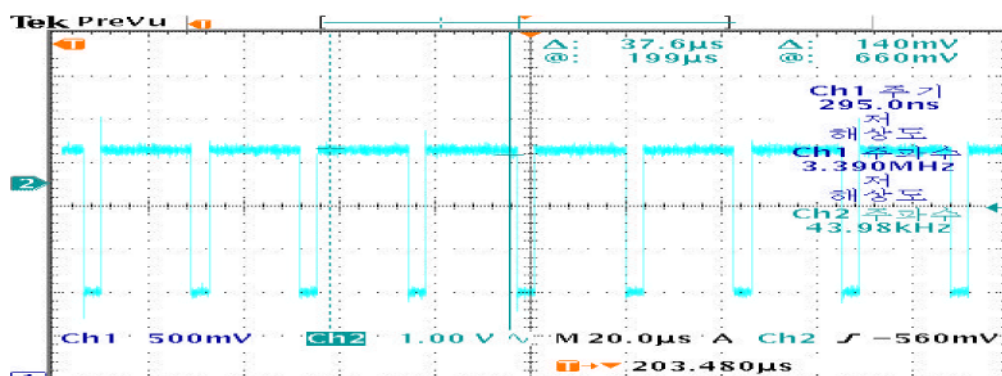
Color signal (input to ICV10)
Location: LCV4



CVBS signal (Input to ICV10)
Location: LCV1

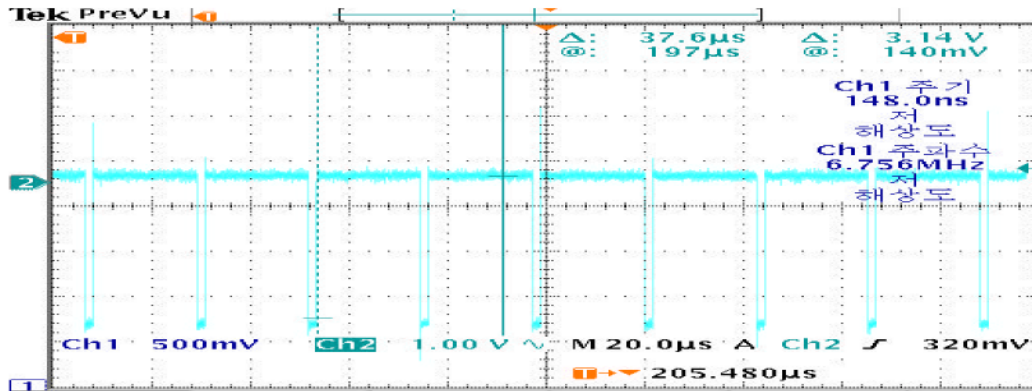


Data Enable(Output of ICS1)
Location(RCS15, ICD10.73PIN)

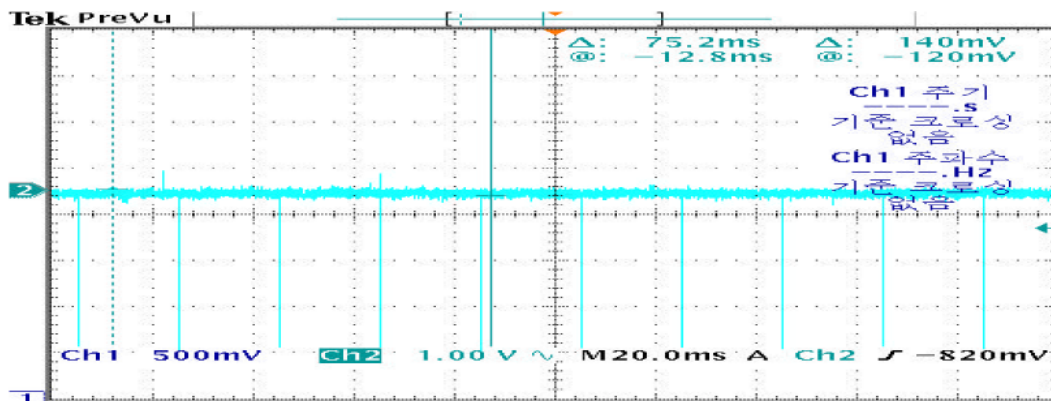


Description of Each BLOCK

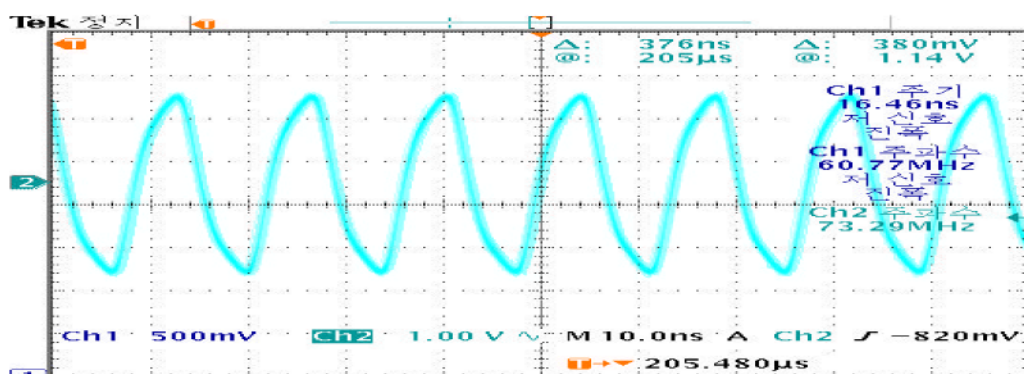
Horizontal sync (Out of ICS1)
Location: RCS12, ICD10.72PIN



Vertical sync (Out of ICS1)
Location: RCS13, ICD10.71PIN



Clock for display (Out of ICS1)
Location: RCS14, ICD10.76PIN



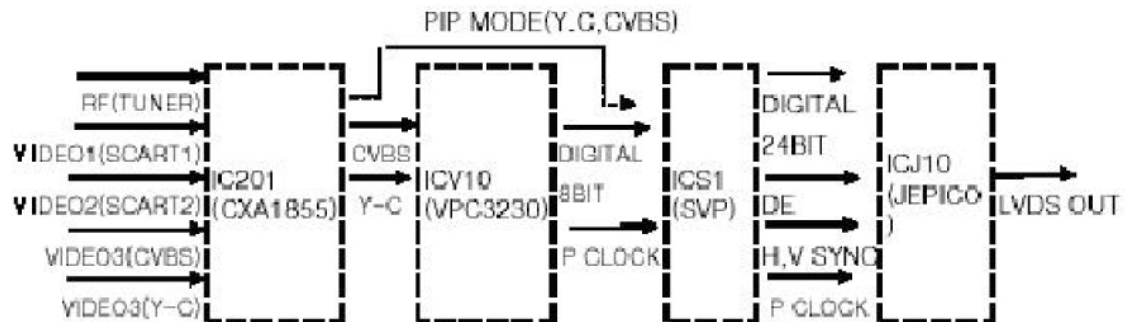
4-2-2. TV signal

Tuner(TU1) receives antenna signal and outputs CVBS and sound signal. For the main signal, IC201 switches out the CVBS and the rest of the signal flow is same as composite video signal flow mentioned earlier.

Also, Sub TV signal at PIP mode flows similar path to the Sub composite video signal pass except that IC201 switches out the CVBS signal

Description of Each BLOCK

- Flow Chart of RF CVBS



- Main Signal

- A. TU1 : Tuner (Input: antenna signal, Output: CVBS)
- B. IC201 : Switching IC (Input: CVBS, Output: CVBS)
- C. ICV10 : Vided processor (Input: CVBS, Output: 8bit Digital, H/V)
- D. ICS1 : Color Decoder/Image Processor(Input: 24bit Digital R/G/B, H/V, Output: 24bit Digital R/G/B, H/V)

- Sub Signal(In PIP mode)

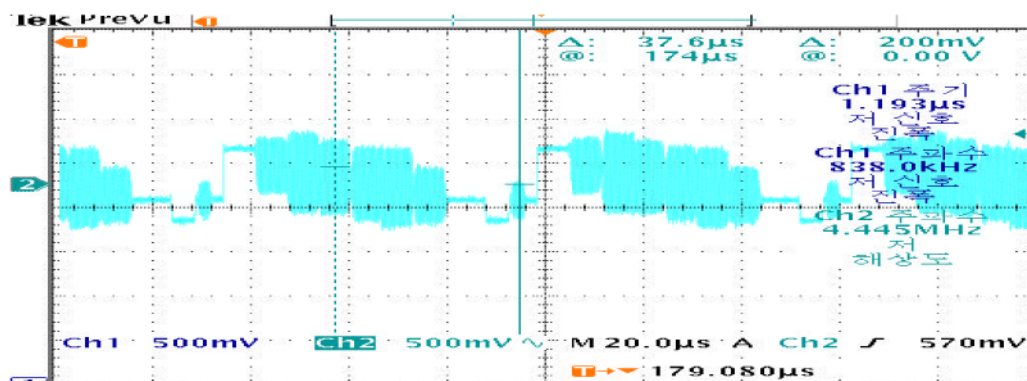
- A. IC201 : Switching IC (Input: antenna signal, Output: CVBS)
- B. ICS1 : Color Decoder/Image Processor(Input: 24bit Digital R/G/B, H/V, Output: 24bit Digital R/G/B, H/V)

- Main TP (Input: Color Bar Pattern)

CE220, CCV16

RCS12(Horizontal sync), RCS13(Vertical sync), RCS14(Clock) RCS15(Data enable)

CVBS signal (Input to IC201)

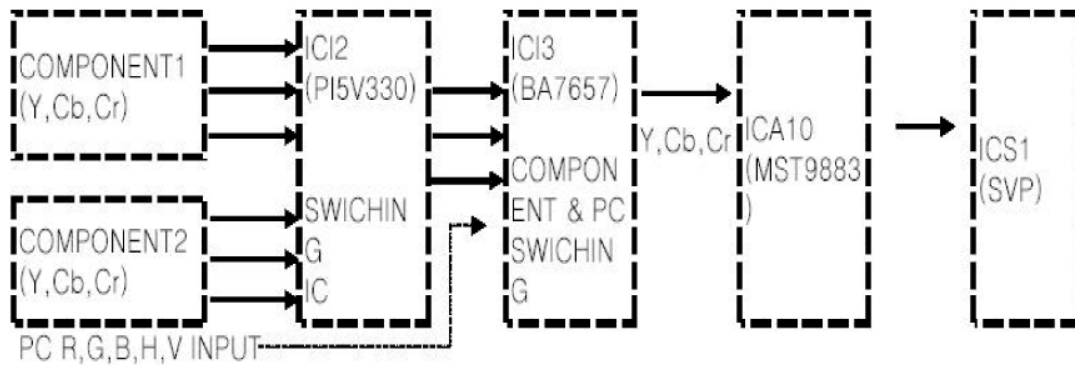


4-2-3. DTV/DVD signal

Both DTV(Y, Pb, Pr) and DVD(Y, Cb, Cr) share same jack and signal path. Main and Sub in PIP mode have same path. ICI3 switches out signal and also detects type of signal so that ICA10 can convert the analog signal to digital. Then the signal goes through ICS1 for the image processing.

Description of Each BLOCK

- Flow Chart of COMPONENT

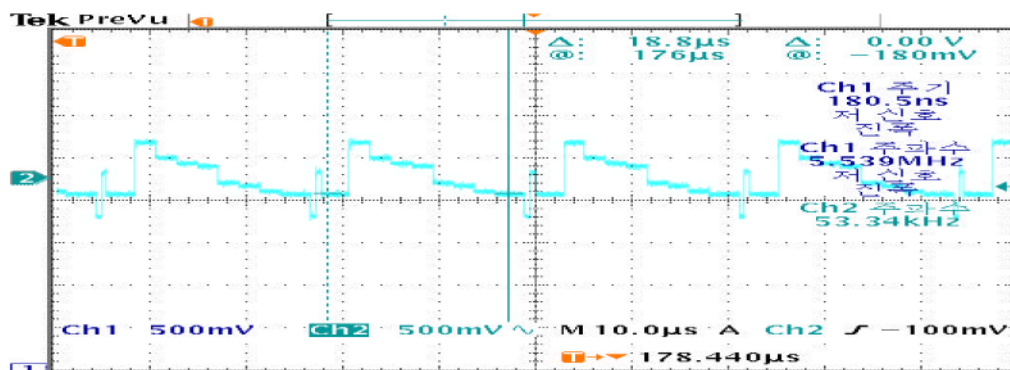


- Main Signal

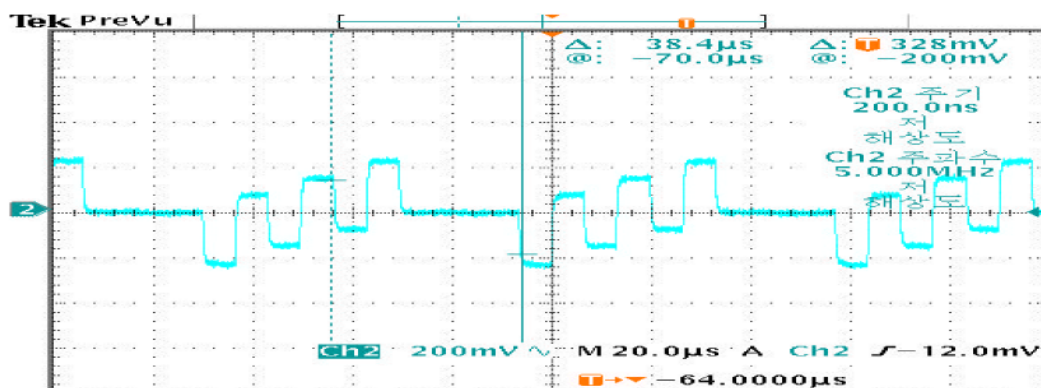
- A. ICI3 : Switching IC (Input: Component, Output: Component, H/V)
- B. ICA10 : A/D converter (Input: Component, H/V, Output: 24bit Digital RGB, H/V)
- C. ICS1 : Color Decoder/Image Processor (Input: 24bit Digital R/G/B, H/V, Output: 24bit Digital R/G/B, H/V)

- Main TP (Input: 576I, Color Bar Pattern)

Y signal (Input to ICA10)
Location: LCA4, RCA12

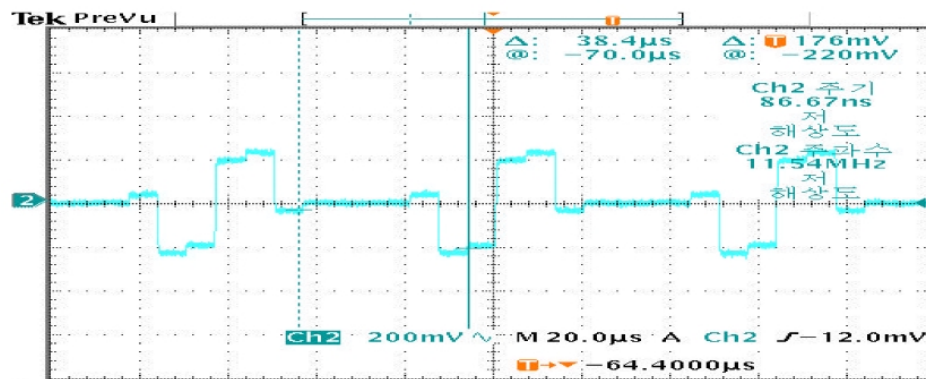


Pb Signal (Input to ICA10)
Location: LCA5, RCA14

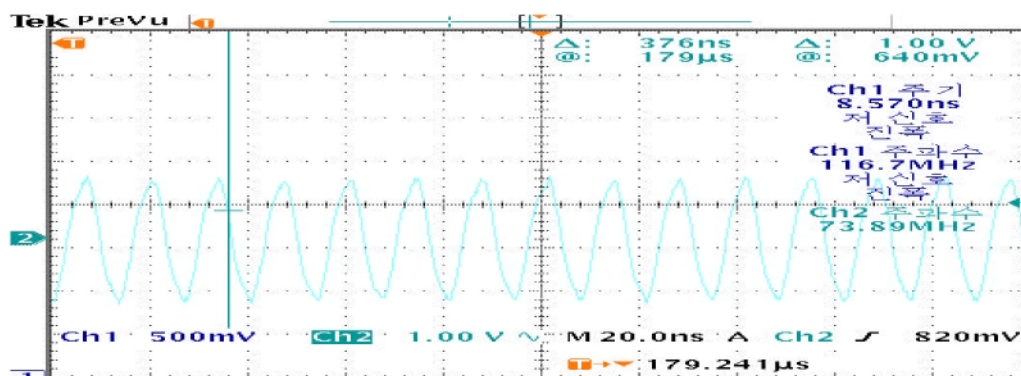


Description of Each BLOCK

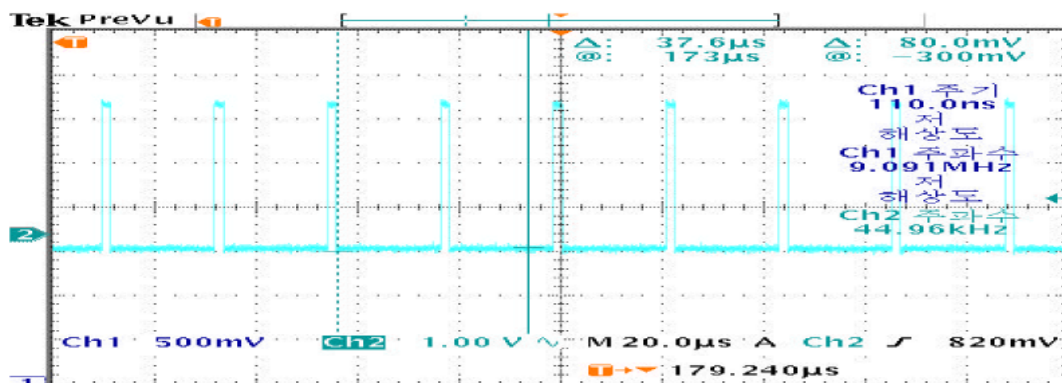
Pr Signal (Input to ICA10)
Location: LCA3, RCA11



Clock (Output of ICA10)
Location: LCA1, RCA10

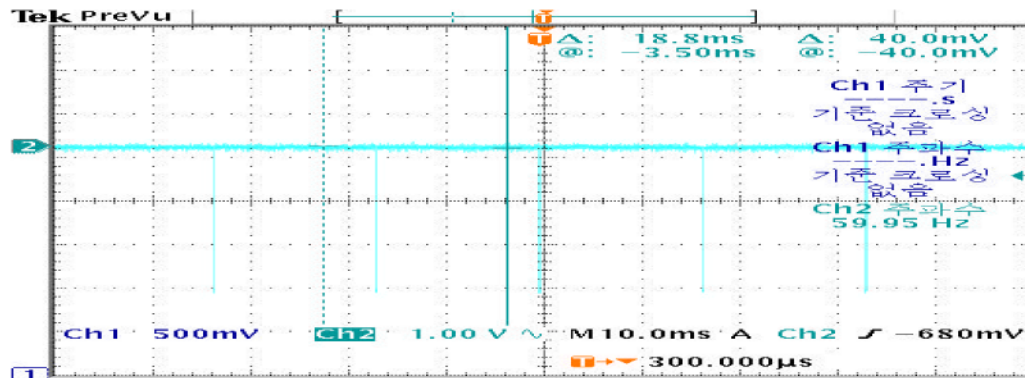


Horizontal sync (Output of ICA10)
Location: RCA9



Description of Each BLOCK

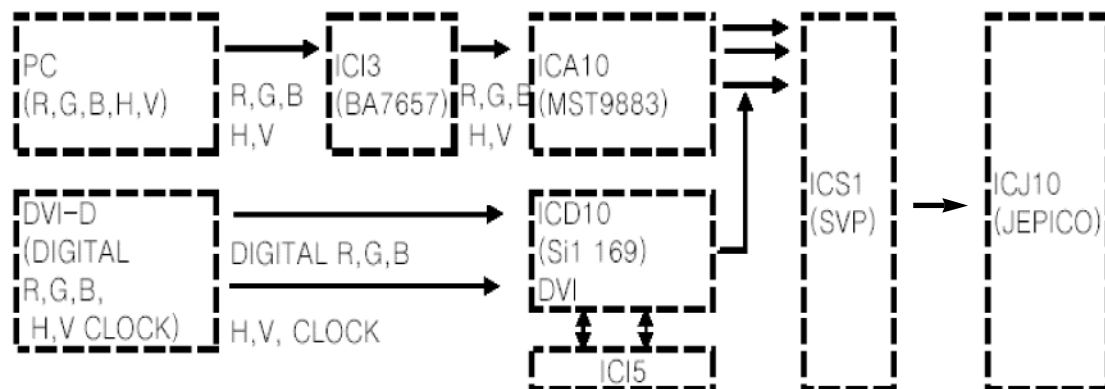
Vertical sync (Output of ICA10)
Location: RCA8



4-2-4. PC (Personal Computer) signal

PC signal is switched out by ICI3 and input to ICA10 for A/D conversion. Then the signal goes through ICS1 for digital image processing.

- Flow Chart of PC Signal



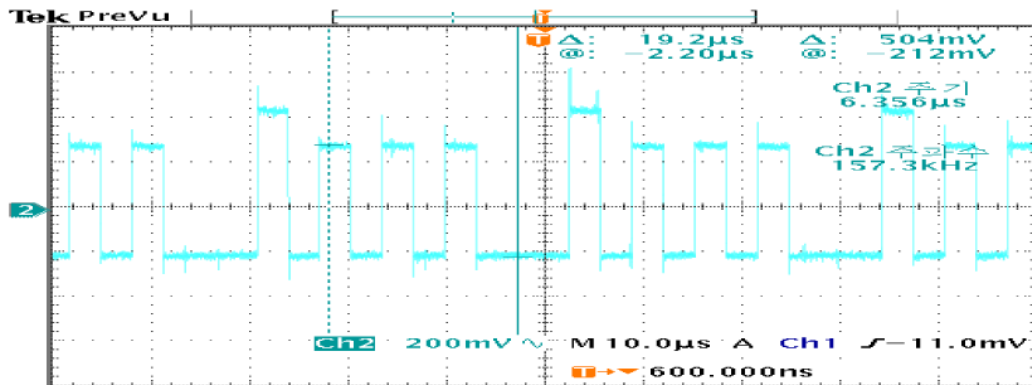
- Main IC

- ICI3 : Switching IC (Input: Analog RGB, H/V, Output: Analog RGB, H/V)
- ICA10 : A/D converter (Input: Analog RGB, H/V, Output: 24bit Digital RGB, H/V)
- ICS1 : Color Decoder/Image Processor (Input: 24bit Digital R/G/B, H/V, Output: 24bit Digital R/G/B, H/V)

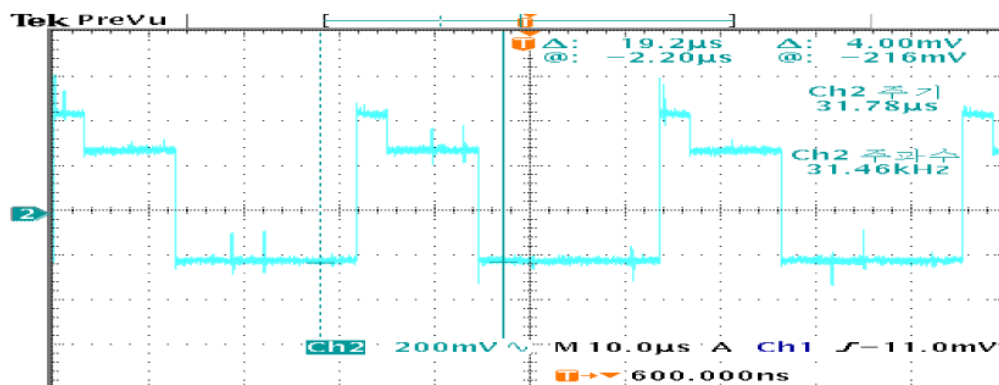
- Main TP (Input: Color Bar Pattern, 1024X768 60Hz)

Description of Each BLOCK

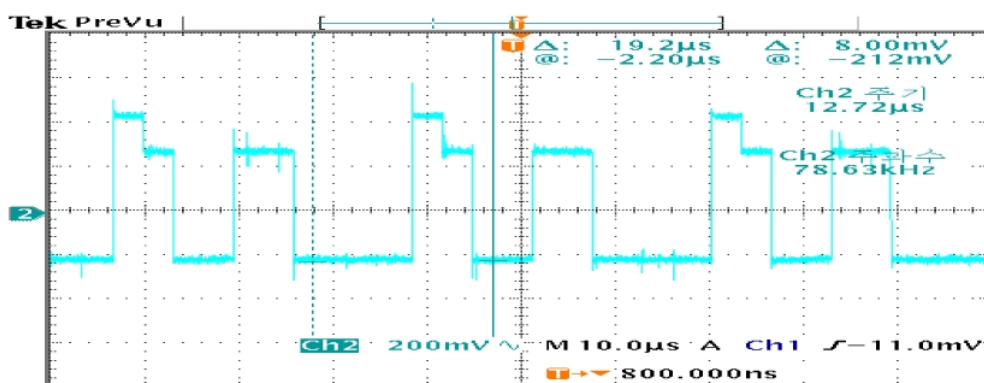
R Signal (Input to ICA10)
Location: LCA3, RCA11



G Signal (Input to ICA10)
Location: LCA4, RCA12



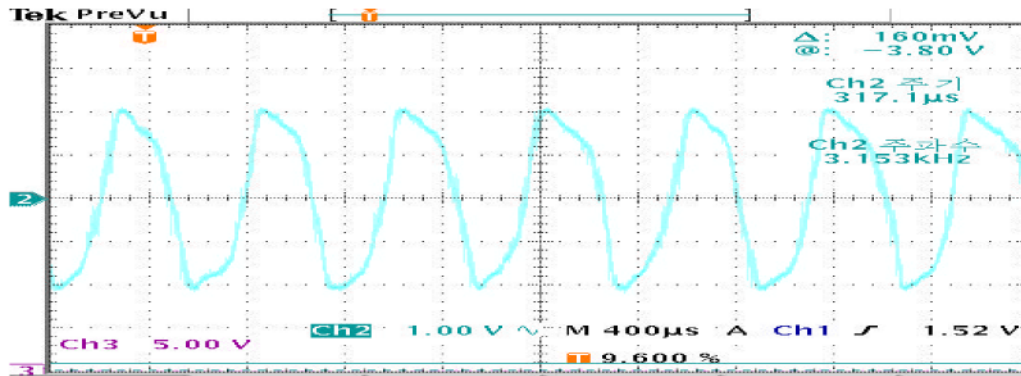
B Signal (Input to ICA10)
Location: LCA5, RCA14



Description of Each BLOCK

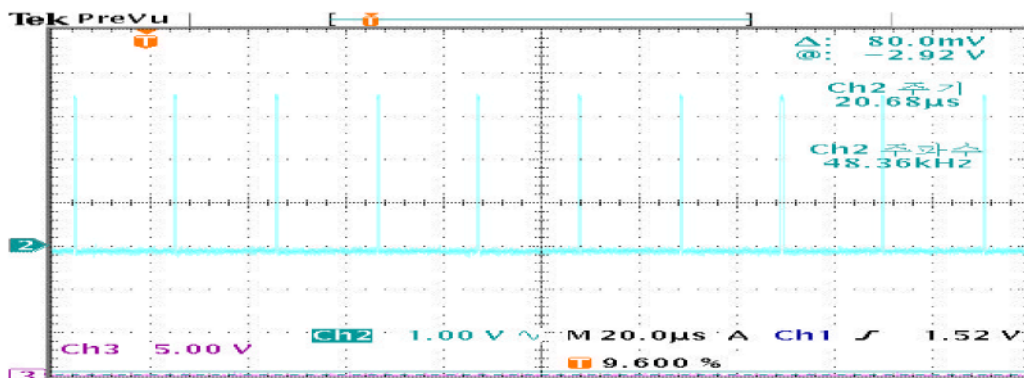
Clock (Output of ICA10)

Location: LCA1, RCA10



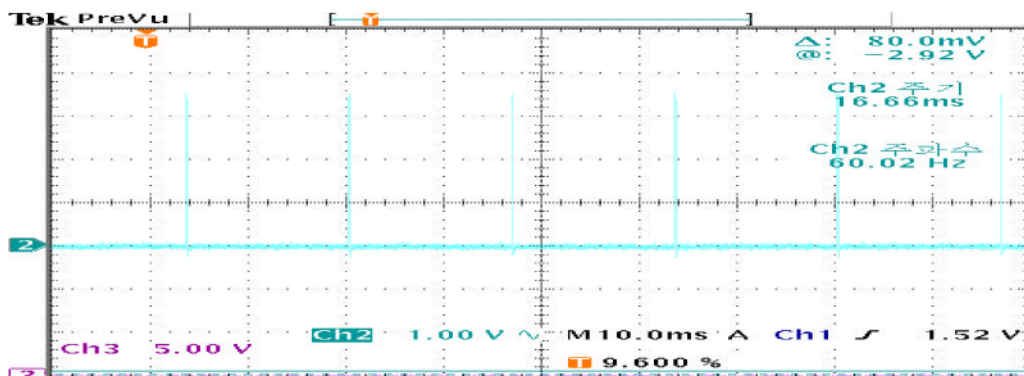
Horizontal sync (Output of ICA10)

Location: RCA9



Vertical sync (Output of ICA10)

Location: RCA8

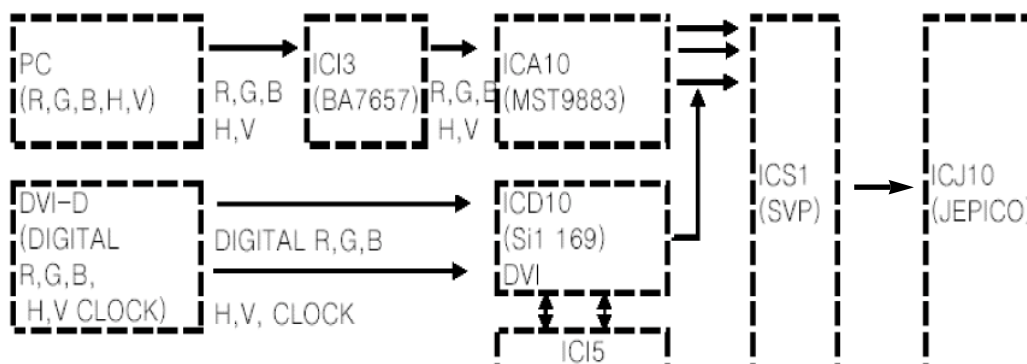


4-2-5 DVI (Digital Visual Interface) signal

To process DVI signal, graphic card of AV device reads EDID data from ICI5(ROM). Then DVI signal is directly inputted to ICD10, which output digital 24bit RGB and H/V. The output goes through ICS1 for digital image processing

Description of Each BLOCK

- Flow Chart of DVI Signal

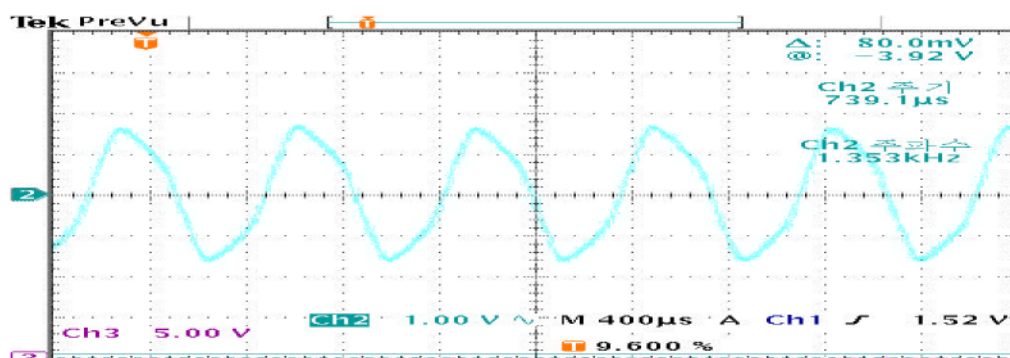


- Main IC

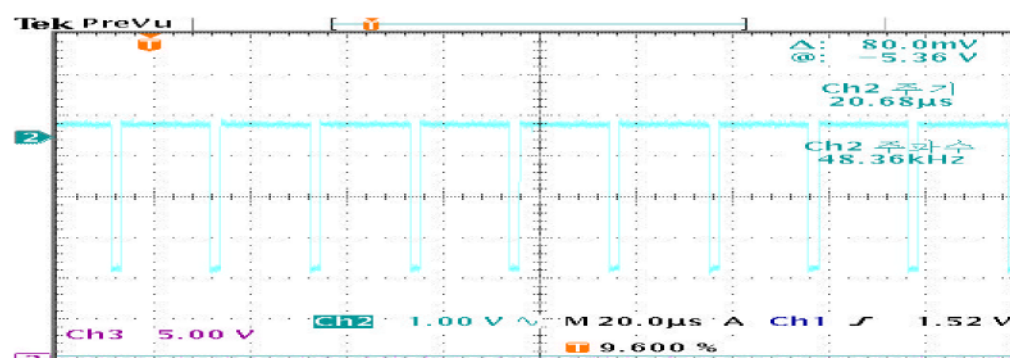
- A. ICI5 : ROM containing EDID data (EDID: display capabilities such as resolution, aspect ratio etc.)
- B. ICD10: DVI signal processor (Input: TMD5, Output: 24bit digital RGB, H/V)

- Main TP (Input: Color Bar Pattern)

Clock (Output of ICD10)
Location: LCD5, RCD5

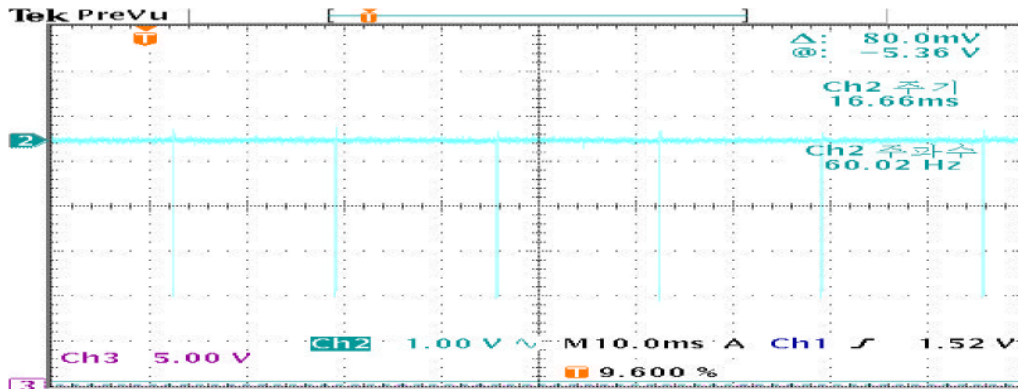


Horizontal sync (Output of ICD10)
Location: RCD6



Description of Each BLOCK

Vertical sync (Output of ICD10)
Location: RCD7



4-2-6. Video Enhancer and LVDS transmitter (for all inputs)

Outputs of ICS1 are inputted to ICJ10 (Video signal enhancer, MGD1) which improves picture quality greatly.

Outputs of ICJ10 are inputted to ICL10 which is a LVDS transmitter. The converted LVDS signal is transmitted to the LCD panel.

- Main IC

A. ICJ10: Video enhancer (Input: 24bit digital RGB, H/V Output: 24bit digital RGB, H/V)

B. ICL10: LVDS transmitter (Input: 24bit digital RGB, H/V Output: LVDS signal)

- Main TP

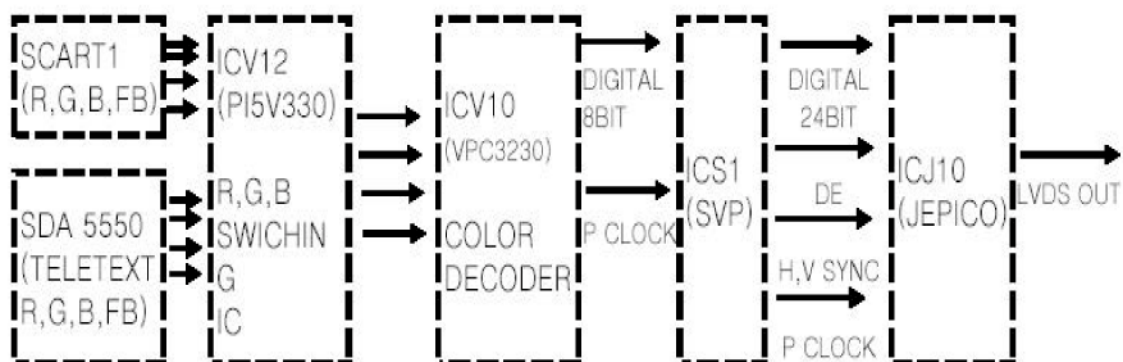
RCJ2: Horizontal sync (Output of ICJ10), refer to RCS12

RCJ3: Vertical sync (Output of ICJ10), refer to RCS13

RCJ1 : Data Enable sync (Output of ICJ10), refer to RCS15

4-2-7. R/G/B PROCESSING (SCART1, TELETEXT R/G/B)

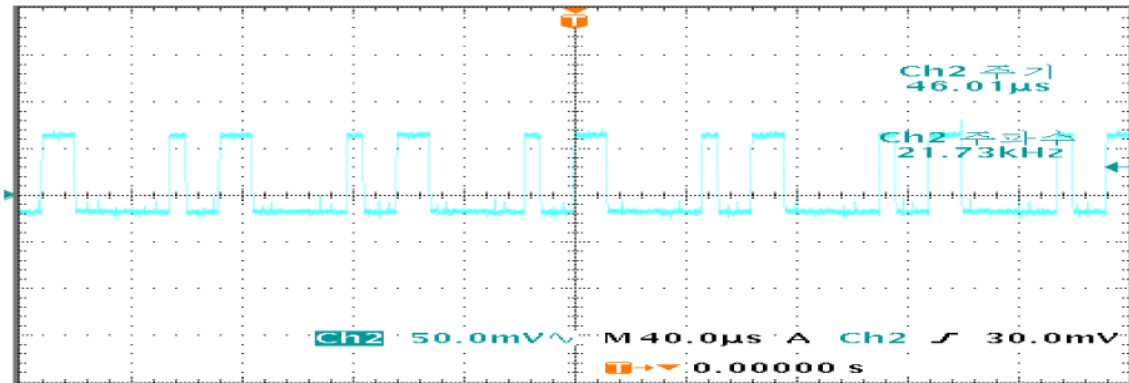
- Flow Chart of SCART1, TELETEXT R/G/B



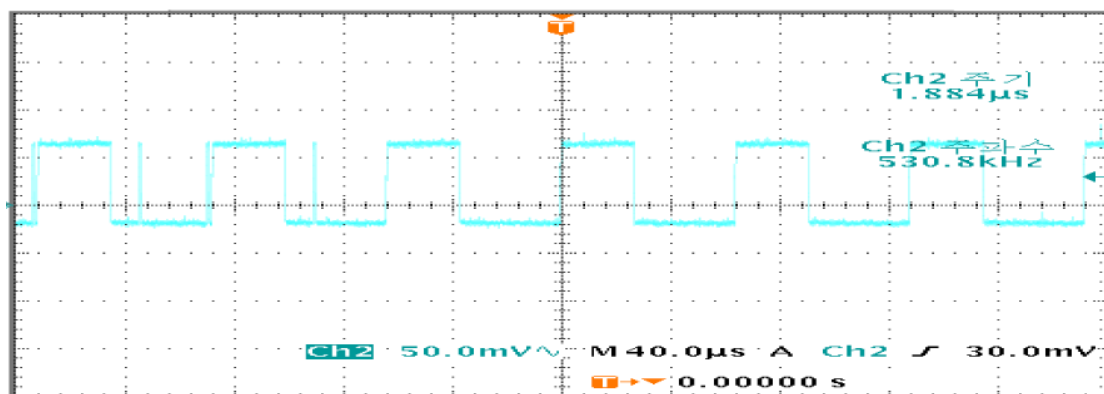
- Main TP

Description of Each BLOCK

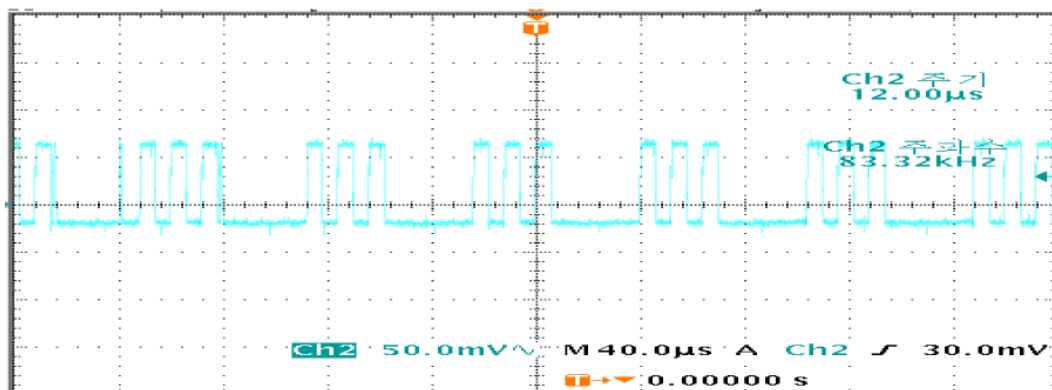
R Signal (Input to ICV10)
Location: LCV10, RCV30



G Signal (Input to ICV10)
Location: LCV9, RCV28



B Signal (Input to ICV10)
Location: LCV8, RCV26



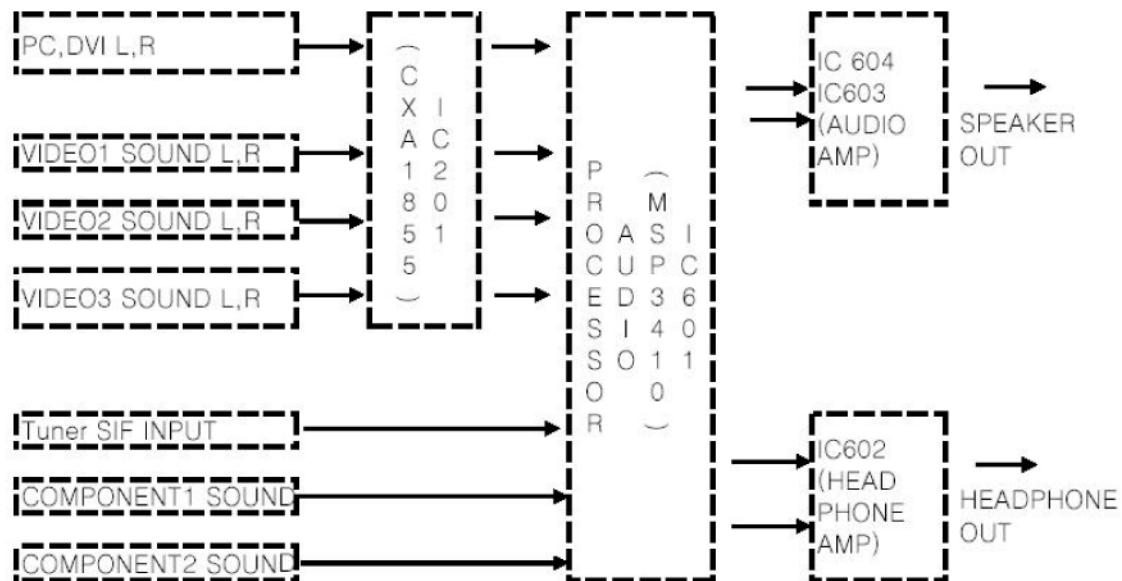
4-2-8. Audio signal processing, KEY, and LED

IC201 switches Audio signals and passes a switched signal to IC601 for audio signal processing. IC601 controls sound parameters such as Volume, Balance, and Equalize.

Description of Each BLOCK

The outputs of IC601 are passed to IC604(right), and IC603(left) respectively to amplify the signals. KEY and LED PCBs send signals received from key buttons and LED to ICU10 for command processing.

- Flow Chart of Audio Signal



- Main IC

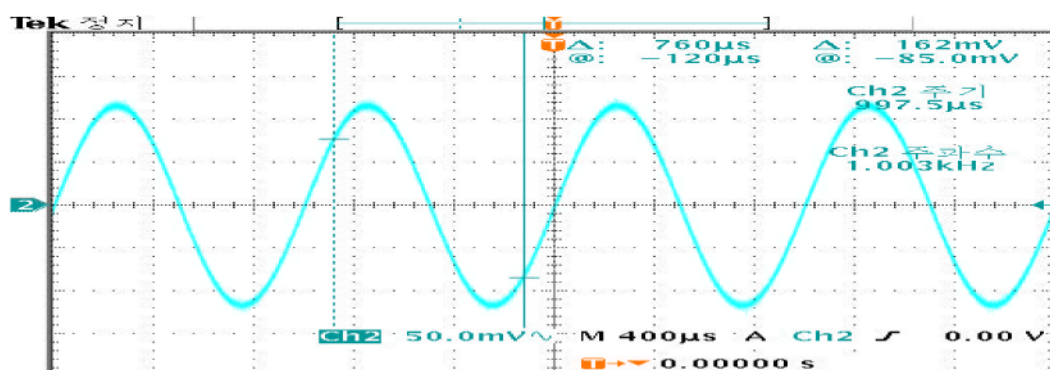
- A. IC201: Switching IC
- B. IC601: Audio processing IC
- C. IC603,604: Amplifying IC

MSP3410 INPUT

Location

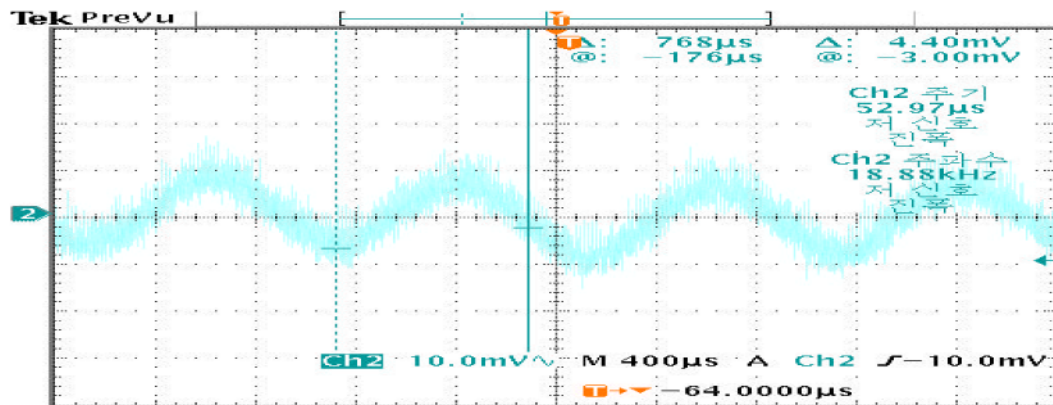
- Main R sound: CE620, RC621
- Sub R Sound: CE618, RC619
- Component1 R sound: CE616, RC617
- Component2 R sound: CE614, RC615
- Main L sound: CE619, RC620
- Sub L Sound: CE617, RC618
- Component1 L sound: CE615, RC616
- Component2 L sound: CE613, RC614

PC_L Sound (Input to IC201) Location (CE208, RC253)

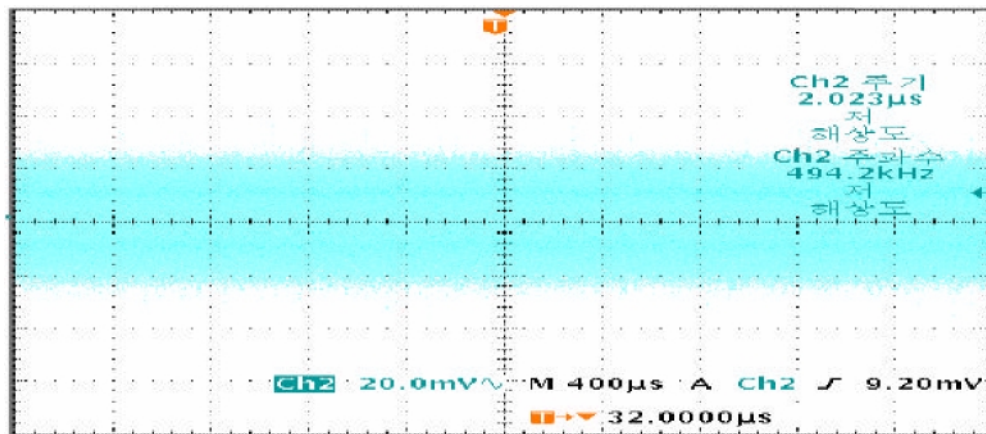


Description of Each BLOCK

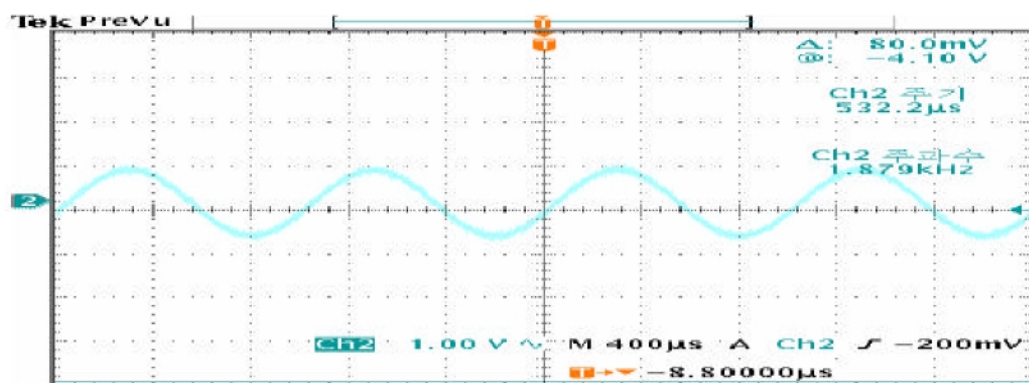
IC604, 605 INPUT
Location: L out(CE605), R out(CE604)



Tuner SIF Input
Location: CC613, TU1.9PIN

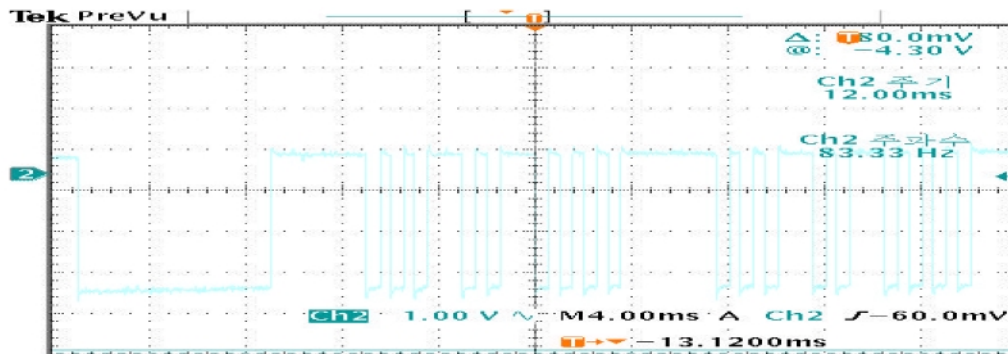


HEADPHONE Out
Location: CE636, CE639



Description of Each BLOCK

Remote control signal
Location: RCW17, CCW3



4-3. POWER PCB

4-3-1. POWER SPEC

- ◆ Rating: 220V~240V
- ◆ Regulating Method:
- ◆ Input Frequency: 50Hz
- ◆ Inrush Current: Below 80A at AC230V
- ◆ Output Voltage and Current are shown below

Board	Output Voltage	Minimum output voltage	Maximum output voltage	Output Current Continuous	Condition
DEP	+24Vdc ($\pm 5\%$)	+22.8Vdc	+25.2Vdc	0-6.0A (144Watt)	PWR-CTL ON
	+15Vdc ($\pm 5\%$)	+14.25Vdc	+15.75Vdc	0-1.0A (30Watt)	
	+6Vdc ($\pm 5\%$)	+5.7Vdc	+6.3Vdc	0-4.0A (24Watt)	
	+5Vdc ($\pm 5\%$)	+4.75Vdc	+5.25Vdc	0-2.5A (12.5Watt)	
	ST+5Vdc ($\pm 5\%$)	+4.75Vdc	+5.25Vdc	0-1.0A (5Watt)	PWR-CTL OFF

Description of Each BLOCK

◆ Ripple and Noise

Output Name	Output voltage		AC ripple, Switching ripple and noise	Condition
	Minimum output voltage	Maximum output voltage	Continuous	
+24V	22.8Vdc	25.2Vdc	500mVp-p	PWR-CTL ON Max Load
+15V	14.25Vdc	15.75Vdc		
+6V	5.7Vdc	6.3Vdc		
+5V	4.75Vdc	5.25Vdc		
ST+5V	4.75Vdc	5.25Vdc	500mVp-p	PWR-CTL OFF
	Other Lines		Don't Care	

4-3-2. Connectors

A. AC Connectors

P801 (I-SHENG PLASTIC 7003 7.0MM 3P)

Power Switch Connector

P802 (YEON-HO YDW236-02P)

PIN NO.	CONFIGURATION
1	LIVE Switch PIN1
2	LIVE Switch PIN2

B. PL11, PL12 pin Spec (HAN JUN A2002WV2-14P 14p)

PL11(SAMSUNG PANNEL)

PIN NO.	OUT PUT
1	+24V
2	+24V
3	+24V
4	+24V
5	+24V
6	GND
7	GND
8	GND
9	GND
10	GND
11	Not Connected
12	INV ON/OFF
13	GND
14	PWM-DIMMING

PL12(AUO)

PIN NO.	OUT PUT
1	+24V
2	+24V
3	+24V
4	+24V
5	+24V
6	GND
7	GND
8	GND
9	GND
10	GND
11	GND
12	INV ON/OFF
13	PWM-DIMMING
14	GND

Description of Each BLOCK

C. PA11 Pin Spec (TEON-HO YMW025-08R 8p)

PIN NO.	OUT PUT
1	ST +5V
2	GND
3	PWR ON/OFF
4	AC DETECT
5	INV ON/OFF
6	A-DIMMING
7	PWM-DIMMING
8	GND

POWER ON : 3.3V

POWER ON : 4.5V

POWER ON : 3.3V

POWER ON : 0V

POWER ON 3.3V

D. PA12 Pin Spec (YEON HO YMW025-10R 10p)

PIN NO.	OUT PUT
1	+5V
2	+5V
3	GND
4	GND
5	+6V
6	+6V
7	+6V
8	GND
9	GND
10	GND

E. PA20 Pin Spec (YEON-HO YMW025-05R 5p)

PIN NO.	OUT PUT
1	+5V
2	+5V
3	GND
4	GND
5	+24V

F. PA21 Pin Spec (YEON HO YMW025-04R 4p)

PIN NO.	OUT PUT
1	+15V
2	GND
3	GND
4	-15V

5. SERVICE MODE

5-1. Checking initial menu data

(1) Check initial data of User Menu

1) Picture

- Mode : Standard
- Brightness : 57
- Contrast : 80
- Color : 60
- Sharpness : 75
- Tint : 0

2) Sound

- Mode : Standard
- Balance : 0
- MPX : Mono
- Spatial : No
- Super Bass : No
- Equalizer
 - ◆ 120Hz : 0
 - ◆ 500Hz : 0
 - ◆ 1KHz : 0
 - ◆ 5KHz : 0
 - ◆ 10KHz : 0

3) Screen

- Mode : 16:9
- PC/DVI
- PIP/POP
 - ◆ Mode : No
 - ◆ Sub Input : TV
 - ◆ PIP Size : PIP
 - ◆ Sound Output : Main
- Color Temp : Normal
- NR : On

4) Install

- Auto tuning
 - ◆ Country : Belgium
 - ◆ Start
- Edit
- Manual Tune
- Fine Tune

5) Features

- Background : Trans
- Language : English
- Child Lock : No
- Time Setting
 - ◆ Clock : -- --:--
 - ◆ Wake up Time : -- --:-- ____
 - ◆ Off Time : -- --:-- ____
 - ◆ Wake up Pr : Pr. No.: 01
 - ◆ Wake up Vol. : 10
- MGDI : Yes

SERVICE MODE

5-2. Entering SERVICE MODE

There is two ways to enter Service Mode.

First, you make use of the SERVICE REMOCON, you can enter Service Mode directly.

Second, to enter SERVICE MODE with User Remocon,

Adjust Sharpness“ 0 ”in Picture mode =>Adjust PR“ 99 ”=> Press the“ Red ”,“ Green ”and“ Blue ”Button => Press the“ menu ”button.

In Service Mode, each number of User Remote controller correspond with each number of Service Remote controller.

5-2-1. Adjustment REMOCON and EEPROM initial DATA

A. The adjustment Specification use the SERVICE REMOCON R-34SVC
(S/N: 48B3034SVC) or USER REMOCON R-50K18 (S/N: 48B5550K18)

B. Adjustment DATA

KEY	Name	Details	Function		remark
			DEFAULT	ADJUSTMENT	
S1	Heat-Run	-	-	-	It can check ROM VERSION.
S2	I2C STOP	-	-	-	
S3	Sound/TIMER Test	-	VOLUME MIN CEN MAX RIGH LEFT, TIMER ON OFF		
S4	Tilt Test	-	BRIGHT MIN CEN MAX, CONTRAST MIN CEN MAX, COLOUR MIN CEN MAX		
S5	EEPROM ERASE	-	S5 is ON ⇒ KUMI, DEMPOL (is selected ◀VOL KEY) press menu key, then eeprom data is erased (excepting factory frequency)		
S6	DECODER	-	DECODER SET MAIN/SUB Adjustment.		
		-	DEFAULT	ADJUSTMENT	
		MAIN BRIGHT	136	NOT	FIX
		MAIN CONTRAST	132	NOT	FIX
		MAIN COLOR	115	NOT	FIX
		SUB BRIGHT	24	NOT	FIX
		SUB CONTRAST	88	NOT	FIX
S7	PANEL TEST	OPERATING METHCO	S7 ON ⇒ WHITE PATTERN ⇒ CH UP/DOWN ⇒		
			RED PATTERN ⇒ CH UP/DOWN ⇒ BLUE PATTERN ⇒		
			GREEN PATTERN ⇒ S7 ⇒ EXIT		
S8	PANEL WHITE BALANCE	OPERATING METHOO	HIGH BEAM PATTERN (It is generated SCALER) ⇒		
			WHITE BALANCE ADJUSTMENT ⇒ MENU KEY ⇒		
			LOW BEAM PATTERN (It is generated SCALER) ⇒		
			WHITE BALANCE ADJUSTMENT ⇒ SB ⇒ SAVE & EXIT		
		-	DEFAULT	ADJUSTMENT	
		R DRIVE	0		FIX
		G DRIVE	0		FIX
		B DRIVE	0		FIX
		OFFSET R	0		FIX
		OFFSET G	0		FIX
S9	COMPONENT VIDEO ADJUSTMENT	OPERATING METHOO	S9 ⇒ COMPONENT1 ⇒ COMPONENT SIGNAL ADJUSTMENT (IF EEPROM ERASE(S5) IS ON, THIS SETTING IS ERASED		
		-	DEFAULT	ADJUSTMENT	
		CR DRIVE	0		FIX
		Y DRIVE	39		FIX
		CB DRIVE	0		FIX
		CR OFFSET	0		FIX
		Y OFFSET	7		FIX
		CB OFFSET	0		FIX

SERVICE MODE

KEY	Name	Details	Function		remark
			DEFAULT	ADJUSTMENT	
S10	PC ADJUSTMENT	OPERATING METHOO	S10 ⇒ PC MODE ⇒ PC SIGNAL ADJUSTMENT (IF EEPROM ERASE(S5) IS ON, THIS SETTING IS ERASED.		
			DEFAULT	ADJUSTMENT	
		GAIN R	10		FIX
		GAIN G	10		FIX
		GAIN B	10		FIX
		OFFSET R	-30		FIX
		OFFSET G	-30		FIX
		OFFSET B	-30		FIX
S11	OPTION	TELETEXT	west-eu, east-eu, russia, greek, arabic, farci, arabich		TTX language select
		OPTION	TOP&FLOP, TOP, FLOP, NON		TTX sorting mothod select
		DELAY	03 (PAL=1 YC DEALY)		FIX
S12	Shipping	-			It is erased factory frequency table (excepting for s8,9,10,11)

5-2-2. Description of SERVICE MODE ITEM

- A. S1(1): Heat-Run Key
=> This key can check ROM VERSION.
- B. S2(2): I2C STOP Key
=> This key only use for R&D.
- C. S3(3): Sound/ Timer test Key
=> This key can check sound and decide a defect of Timer LED.
- D. S4(4): Tilt test Key
=> This key only use for adjustment of factory.
- E. S5(5): EEPROM Erase Key
=> After Mi-com update, you must erase EEPROM data using this key.
- F. S6(6): DECODER Key.
=> For the CVBS signal (Main and Sub in PIP mode) adjustment, this key adjust brightness, contrast and color.
- G. S7(7): PANEL TEST Key.
=> Using this key, you can test problem of PANEL, as confirm white pattern, red pattern, blue pattern, green pattern
- H. S8(8): PANEL WHITE BALANCE Adjustment Key
=> Using this key, you can adjust PANEL WHITE BALANCE.
GAIN R,G,B: As adjust this factor, you can increase or decrease Contrast of each color.
OFFSET R,G,B: As adjust this factor, you can increase or decrease Black Level of each color.
- I. S9(9): COMPONENT VIDEO Adjustment Key
=> Using this key, you can adjust WHITE BALANCE of COMPONENT VIDEO.
Y, Cb, Cr DRIVE: As adjust this factors, you can increase or decrease Contrast of each color.
Y, Cb, Cr OFFSET: As adjust this factor, you can increase or decrease Bright Level of each signal.
- J. S10(10): PC ADJUSTMENT Key.
=> Using this key, you can adjust WHITE BALANCE of PC.
GAIN R,G,B: As adjust this factor, you can increase or decrease Contrast of each color.
OFFSET R,G,B: As adjust this factor, you can increase or decrease Bright Level of each color.
- K. S11(LOCK): OPTION Key
=> Using this key, you can select TTX language, TTX sorting method.
TELETEXT(language): West-EU, East-EU, Russia, Greek, Arabic, farci, arabich
OPTION(sorting method): TOP&FLOP, TOP, FLOP, NON
DELAY: Don't Adjust this factor.
- L. S12(SLEEP): Shipping key
=> Using this key, you can set up at shipping mode.

6. WHITE BALANCE Adjusting Method.

To adjust WHITE BALANCE, refer to below process.

- A. To enter Service Mode, press button S1 (when Service Remote) or Adjust Sharpness "0" in Picture mode => Adjust PR "99" => Press the "Red", "Green" and "Blue" Button => Press the "menu" button. (when User Remote)
Then, HEAT RUN MODE IS CANCELED.
-HEATRUN =1 : ON
-HEATRUN =0 : OFF
- B. Attach a sensor of White Balance Meter to center on the screen.
- C. Press S8(8), Then the set is entered TV WHITE BALANCE Adjustment Mode.
- D. Middle BEAM(330~270cd): Adjust WHITE BALANCE by varying Gain of R,B(G fixed)
-Coordinate of color is $X=273 \pm 5$, $Y=280 \pm 5$ And press menu key to change middle beam pattern.
- E. Low BEAM(60~20cd): Adjust WHITE BALANCE by varying OFFSET R,B(G fixed)
-Coordinate of color is $X=273 \pm 5$, $Y=280 \pm 5$ And press menu key to change low beam pattern.
- F. Repeat from D to E until getting that Coordinate of color is $X=273 \pm 5$, $Y=280 \pm 5$.
- G. To exit from Service Mode, press S8 on the remote (when Service Remote) or turn off the TV. (when User Remote)

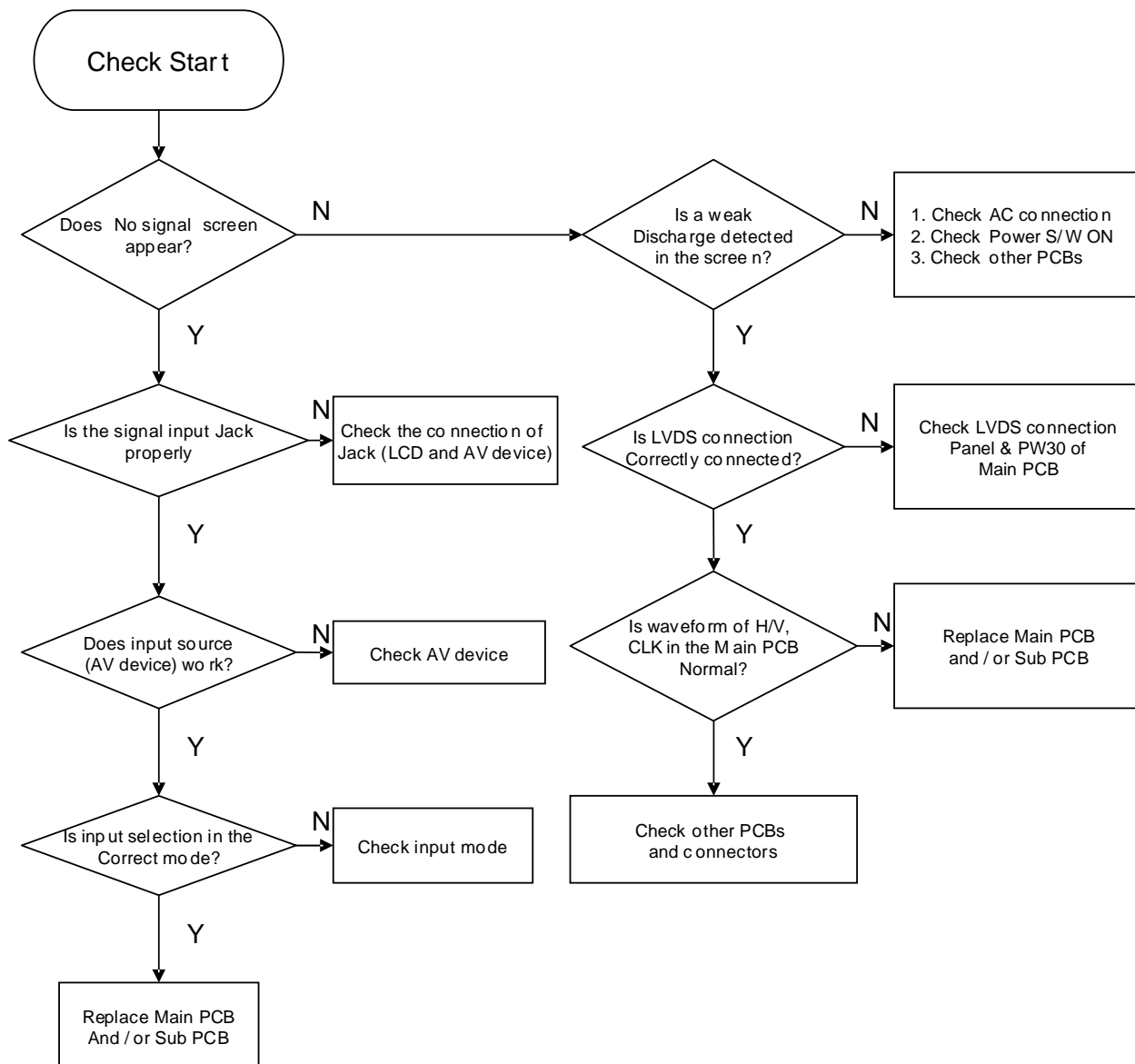
7. Main PCB Trouble Diagnosis

7-1. MAIN & SUB PCB Trouble Diagnosis

7-1-1. Common checking process when “ No signal ” or “ No raster ”

No signal: OSD is working but no images are displaying

No raster: OSD as well as images is not working



A. When “ No signal ” in CVBS (RF, AV1)

1) First check if other inputs are working

=> If other inputs are not working, replace MAIN or SUB PCB

2) Checking waveforms with Color Bar Pattern (Using the oscilloscope)

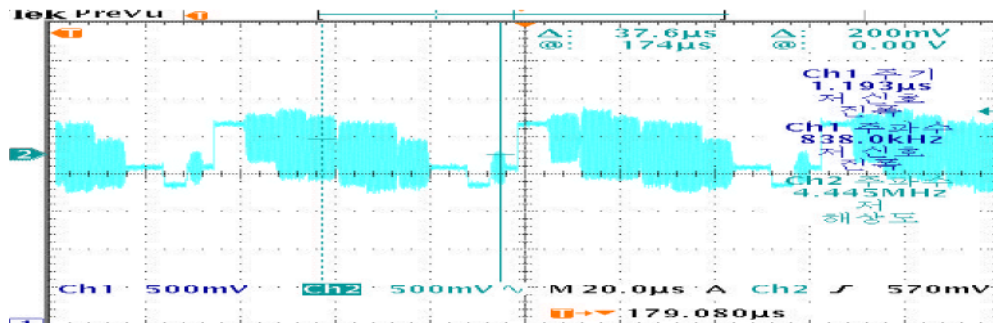
- Main TP (RF): RC109(Bottom, Sub) near Tuner, Positive polarity of CE220(Top, Sub) near IC201, RC255(Bottom, Sub) near IC201, CCV16(Top, Main) near ICV10

- Main TP(AV1): 5th pin of PW202(Top, Sub), Negative polarity of CE214(Top, Sub) near IC201, RC255(Bottom, Sub) near IC201, CCV16(Top, Main) near ICV10

=> If all TP signal does not appear, replace SUB PCB.

Main PCB Trouble Diagnosis

CVBS signal (Positive polarity of CE220)



B. When “ No Signal ” in Y/C signal (S-Video)

1) First check if other inputs are working

=> If other inputs are not working, replace MAIN or SUB PCB

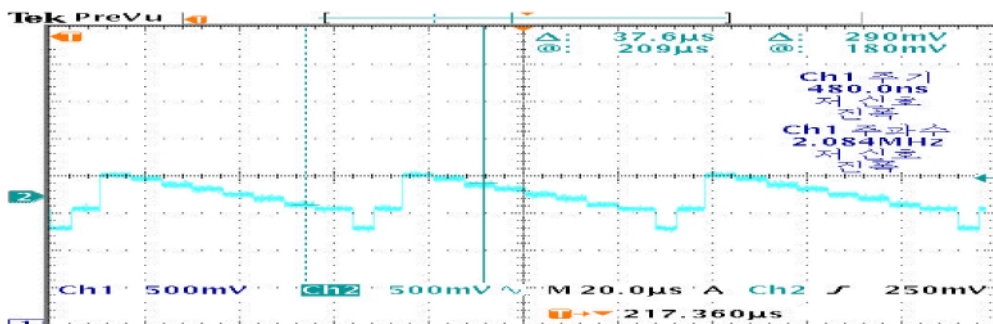
2) Checking waveforms with Color Bar Pattern (Using the oscilloscope)

- Main TP(Y signal): 7th pin of PW202(Top, Sub), Negative polarity of CE214(Top, Sub) near IC201, RC10(Bottom, Sub) near IC201, CCV15(Top, Main) near ICV10

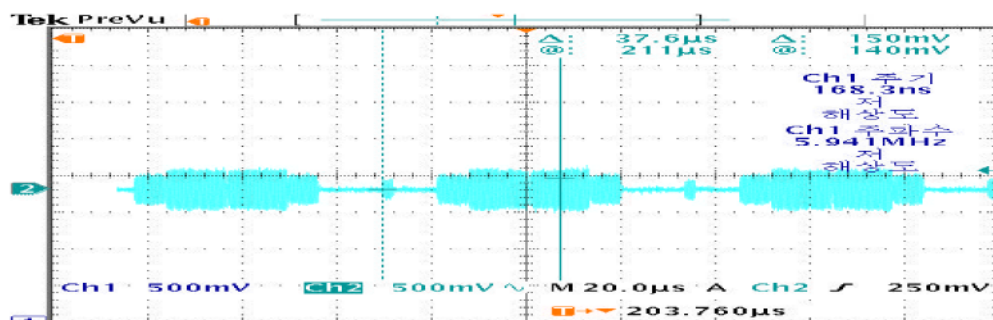
-Main TP(C signal): 9th pin of PW202(Top, Sub), Positive polarity of CE218(Top, Sub) near IC201, RC257(Bottom, Sub) near IC201, CCV14(Top, Main) near ICV10

=> If all TP signal does not appear, replace SUB PCB

Y signal (CCV15)



C signal (CCV14)



Main PCB Trouble Diagnosis

C. When "No Signal" in Y/Pb/Pr signal (Component)

1) First check if other inputs are working

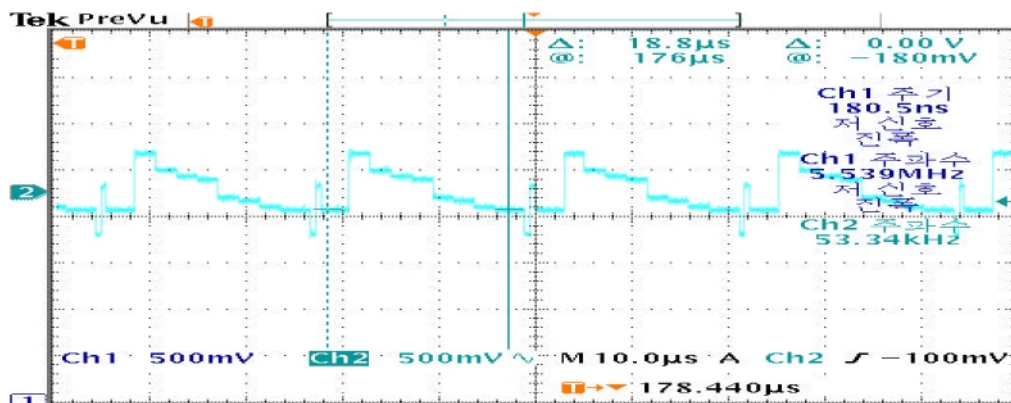
=>If other inputs are not working, replace MAIN or SUB PCB

2) Checking waveforms with Color Bar Pattern (Using the oscilloscope)

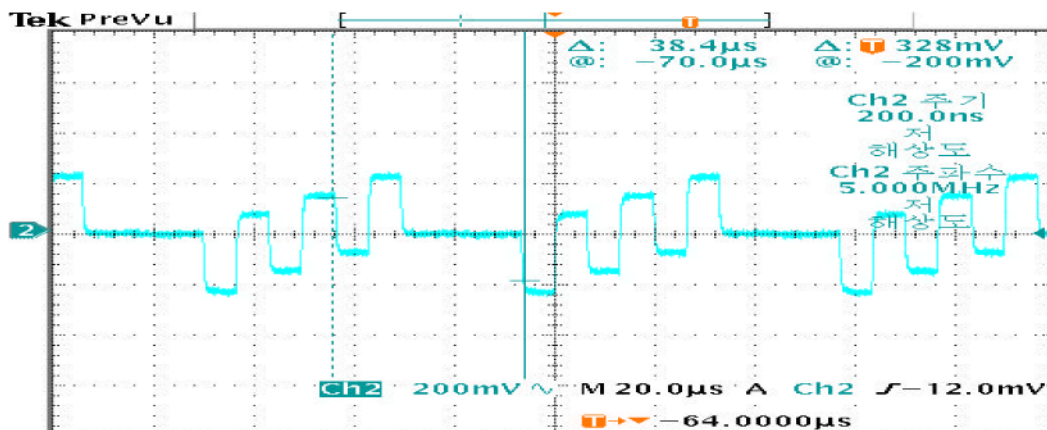
- Main TP (COMP1_Y): LCI27(Bottom, Main) near JP3, Second pin of ICI2, 4th pin of ICI2, 19th pin of ICI3, LCA4(Top, Main) near ICA10
- Main TP (COMP1_Pb): LCI22(Bottom, Main) near JP3, 5th pin of ICI2, 7th pin of ICI2, 14th pin of ICI3, LCA5(Top, Main) near ICA10
- Main TP (COMP1_Pr): LCI18(Bottom, Main) near JP3, 11th pin of ICI2, 9th pin of ICI2, 21th pin of ICI3, LCA3(Top, Main) near ICA10
- Main TP (COMP2_Y): LCI26(Bottom, Main) near JP3, Third pin of ICI2, 4th pin of ICI2, 19th pin of ICI3, LCA4(Top, Main) near ICA10
- Main TP (COMP2_Pb): LCI21(Bottom, Main) near JP3, 6th pin of ICI2, 7th pin of ICI2, 14th pin of ICI3, LCA5(Top, Main) near ICA10
- Main TP (COMP2_Pr): LCI17(Bottom, Main) near JP3, 11th pin of ICI2, 10th pin of ICI2, 21th pin of ICI3, LCA3(Top, Main) near ICA10

=> If all TP signal does not appear, replace MAIN PCB.

Y signal (LCA4)

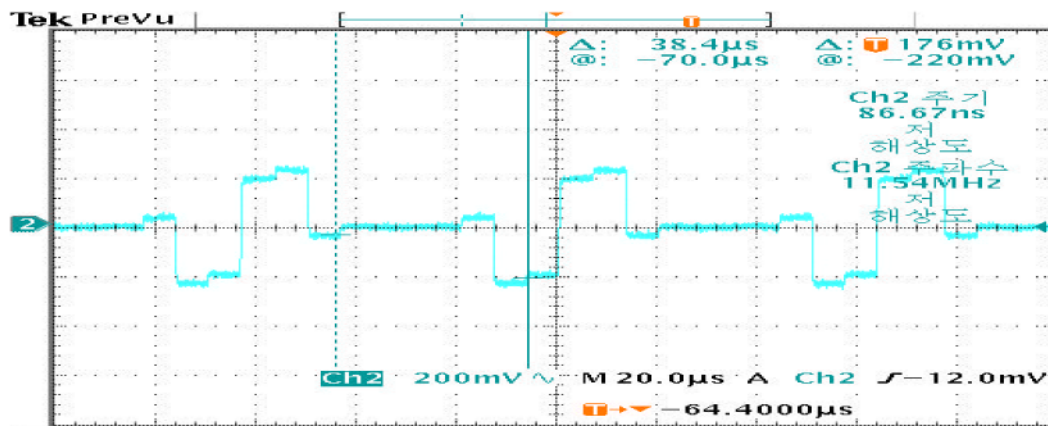


Pb signal (LCA5)



Main PCB Trouble Diagnosis

Pr Signal (LCA3)



D. When " No Signal "in PC

1) First check if other inputs are working

=>If other inputs are not working, replace MAIN or SUB PCB

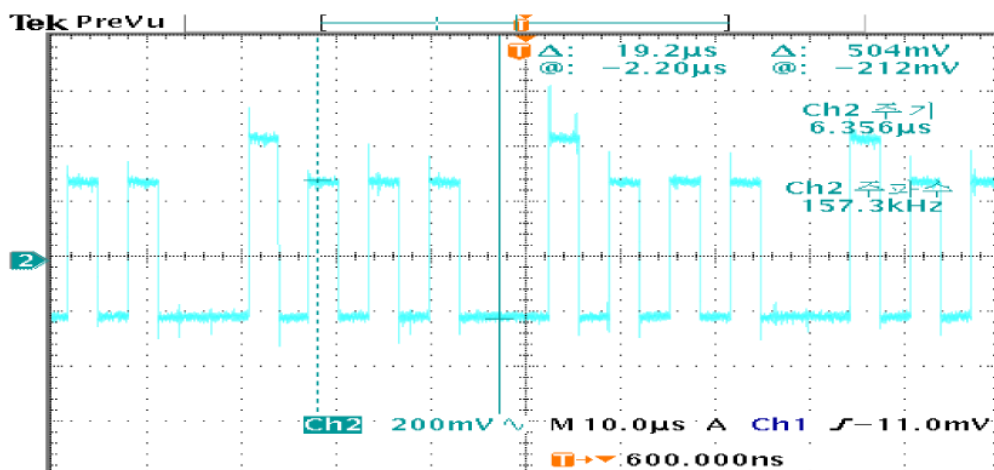
2) Checking waveforms with Color Bar Pattern (Using the oscilloscope)

- Main TP (R signal): LCI3(Top, Main) near D-Sub Jack, 7th pin of ICI3, 21th pin of ICI3, LCA3(Top, Main) near ICA10
- Main TP (G signal): LCI4(Top, Main) near D-Sub Jack, 9th pin of ICI3, 19th pin of ICI3, LCA4(Top, Main) near ICA10
- Main TP (B signal): LCI5(Top, Main) near D-Sub Jack, 11th pin of ICI3, 14th pin of ICI3, LCA5(Top, Main) near ICA10
- Main TP (H-Sync): RCI26(Bottom, Main) near ICI4, 23th pin of ICI3, 22th pin of ICI3, 30th pin of ICA10, RCA9(Top, Main) near ICA10
- Main TP (V-Sync): RCI25(Bottom, Main) near ICI4, 13th pin of ICI3, 14th pin of ICI3, 31th pin of ICA10, RCA8(Top, Main) near ICA10

=> If all TP signal does not appear, replace MAIN PCB.

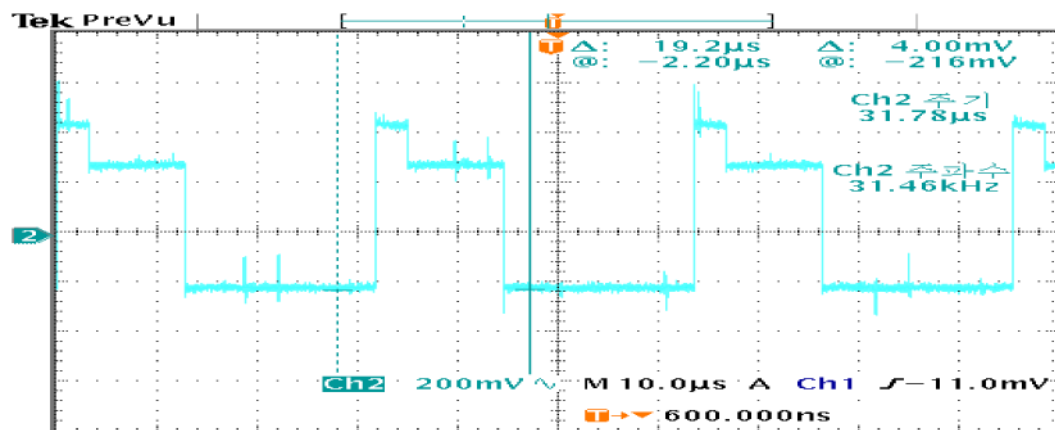
1024 X 768, 60Hz

R signal (LCA3)

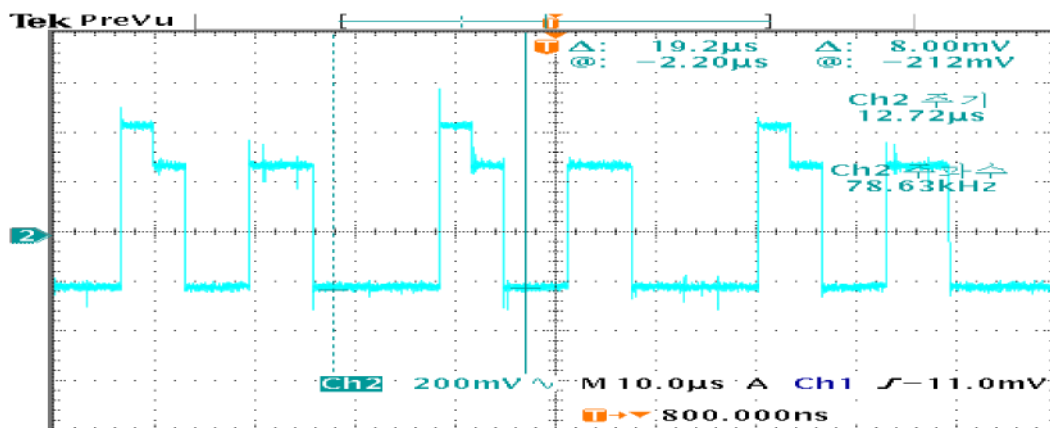


Main PCB Trouble Diagnosis

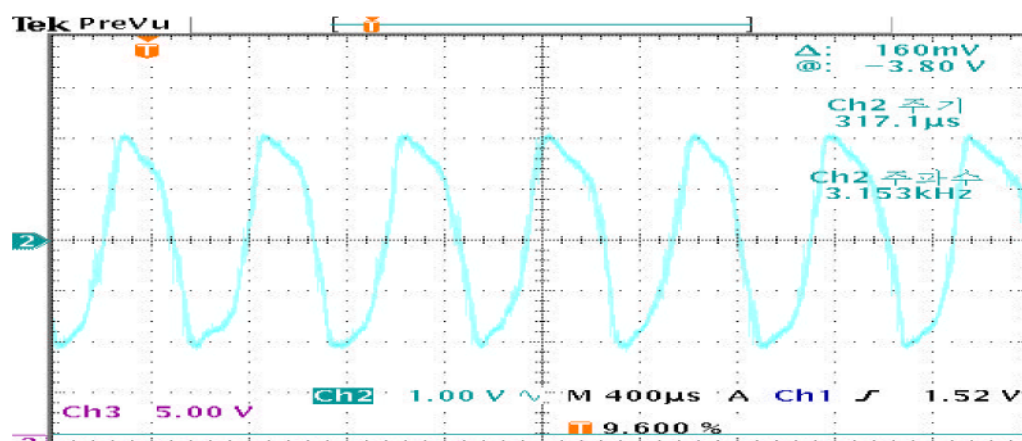
G Signal (LCA4)



B Signal (LCA5)

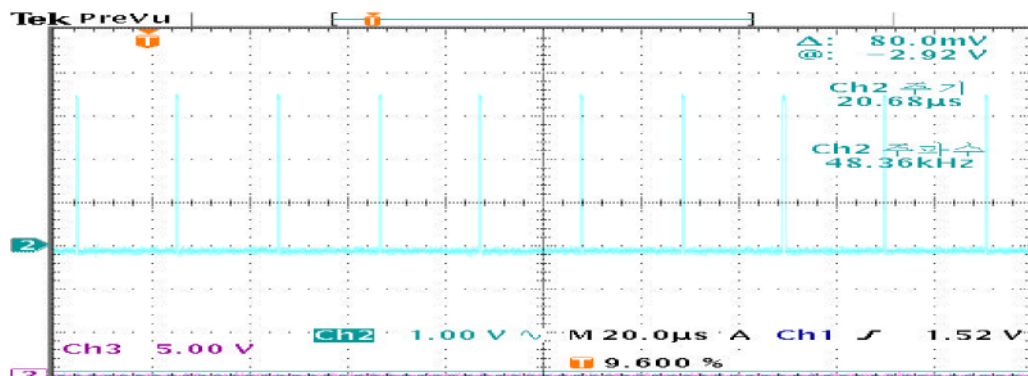


Clock (RCA10 near ICA10)

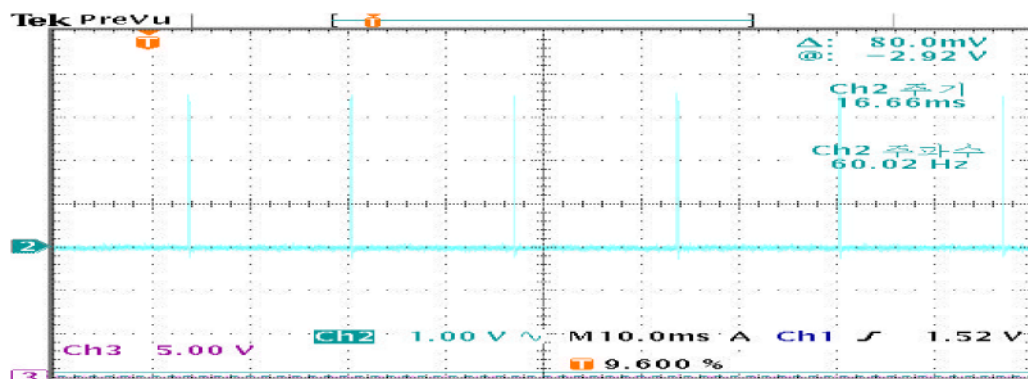


Main PCB Trouble Diagnosis

Horizontal sync (RCA9 near ICA10)



Vertical sync (RCA8 near ICA10)

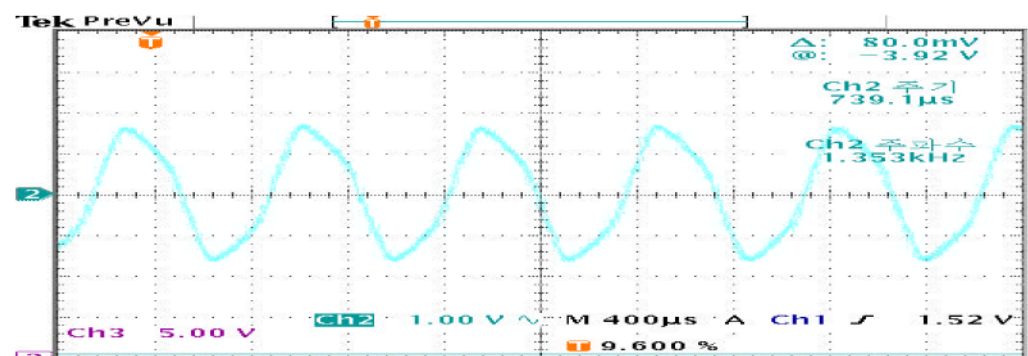


E. When "No Signal" in DVI

- 1) First check if other inputs are working
=> If other inputs are not working, replace MAIN or SUB PCB
- 2) Checking waveforms with Color Bar Pattern (Using the oscilloscope)
 - Main TP (Clock): RCD5(Top, Main) near ICD10
 - Main TP (H-Sync): RCD6(Top, Main) near ICD10
 - Main TP (V-Sync): RCD7(Top, Main) near ICD10
 => If all TP signal does not appear, replace MAIN PCB.

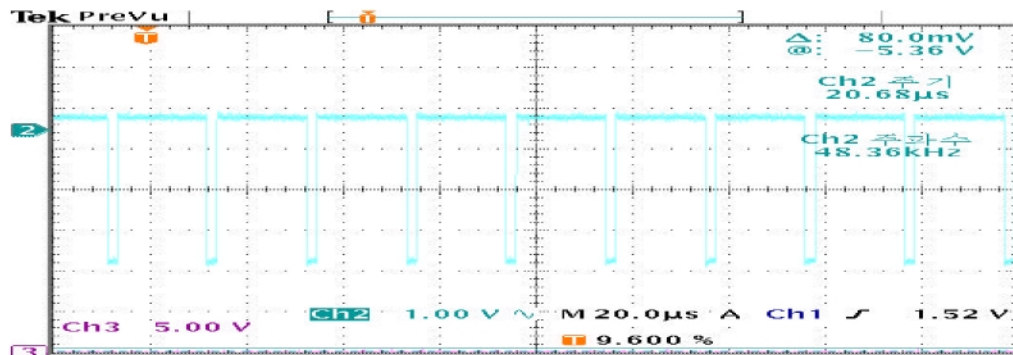
1024 X 768, 60Hz

Clock (RCD5 near ICD10)

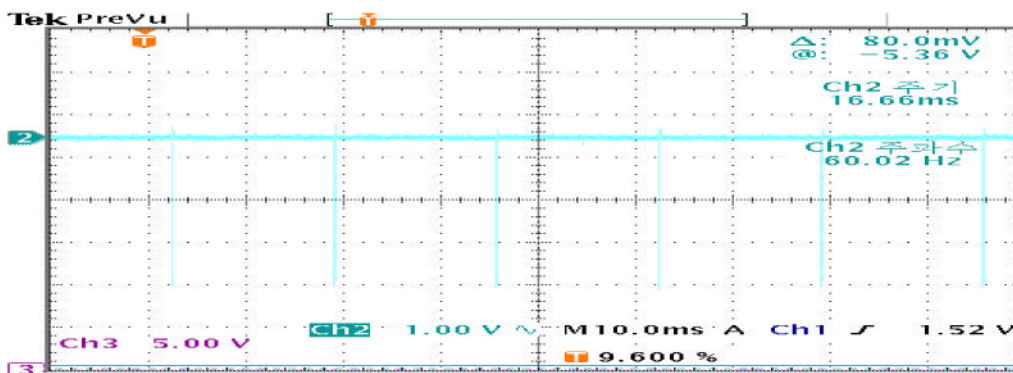


Main PCB Trouble Diagnosis

Horizontal sync (RCD6 near ICD10)



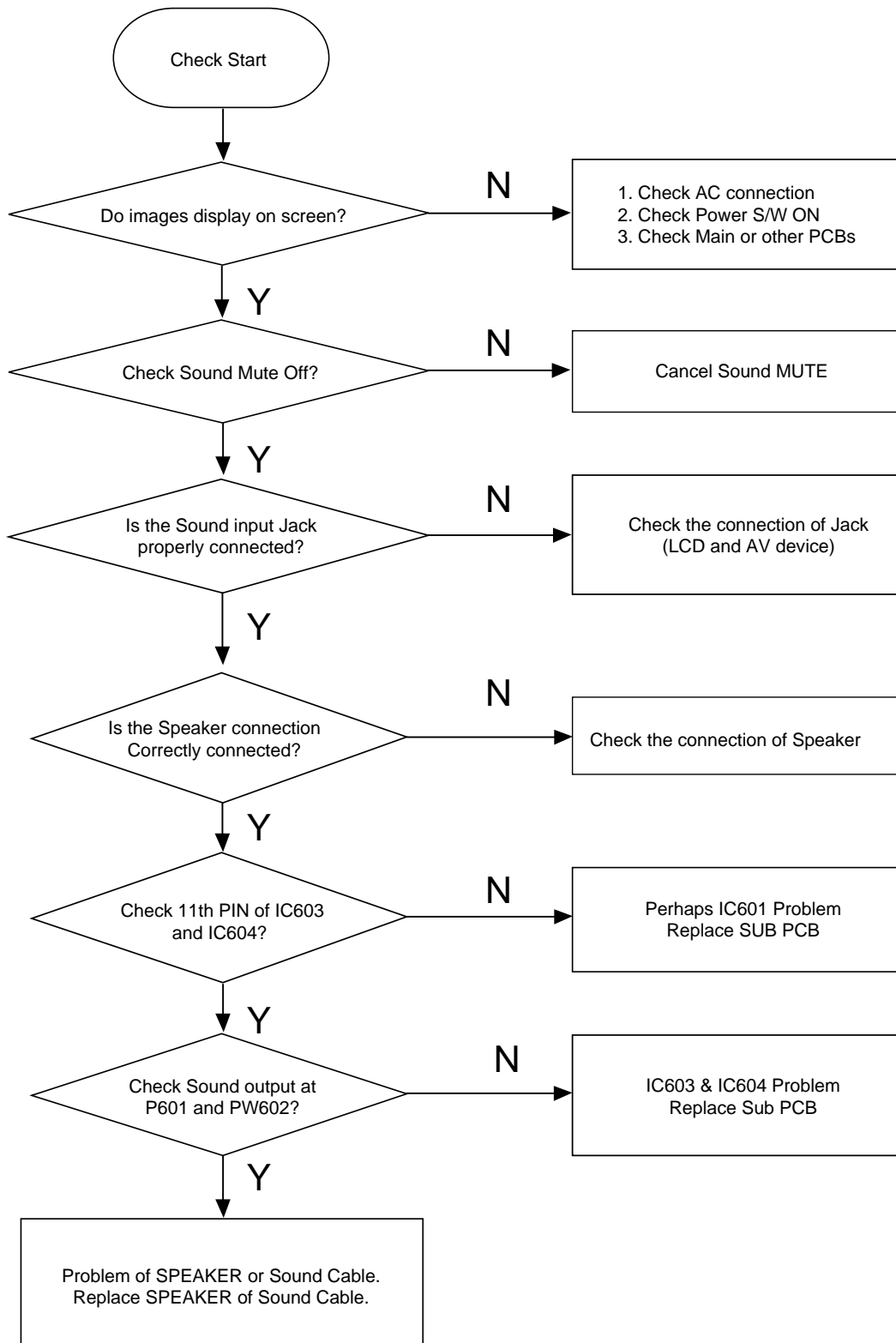
Vertical sync (RCD7 near ICD10)



Main PCB Trouble Diagnosis

7-1-2. When No Sound

A. Overview



Main PCB Trouble Diagnosis

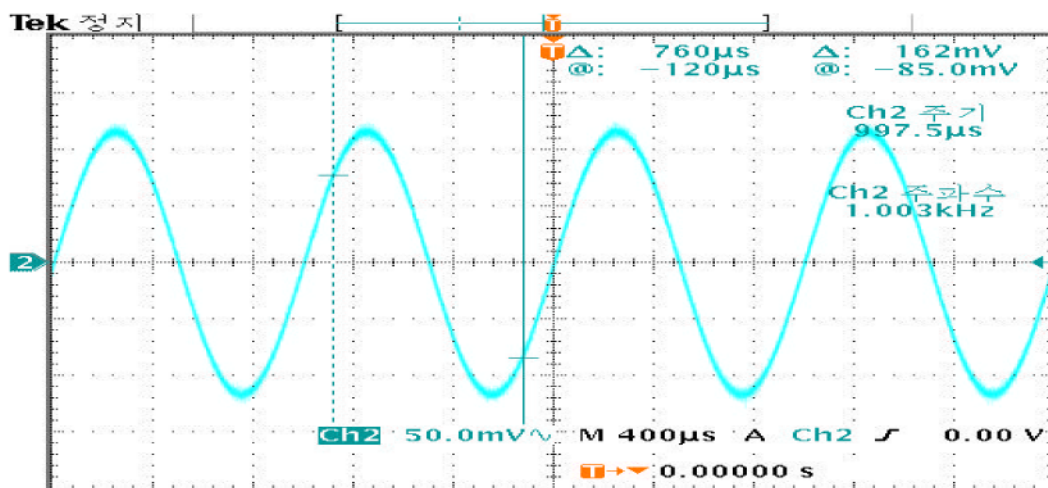
- 1) First check if images are displaying
=> If images are not displaying, replace MAIN or SUB PCB
- 2) Checking waveforms with 1Khz Sound pattern

B. Main TP

- Input to IC601: CE613(COMP2_L), CE614(COMP2_R), CE615(COMP1_L), CE616(COMP1_R), CE617(SUB_L), CE618(SUB_R), CE619(MAIN_L), CE620(MAIN_R), RC665(MONO), CC613(SIF)
- Output to IC601: CE604(R OUT), CE605(L OUT)

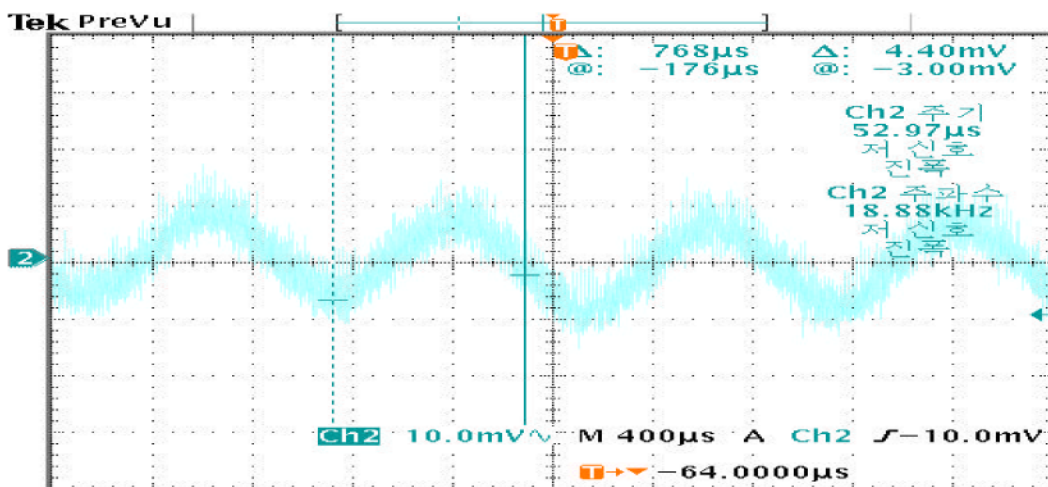
1Khz Sound Signal (Input to IC 201)

Location: PC-L(RC253, CE208), PC-R(RC254, CE209)



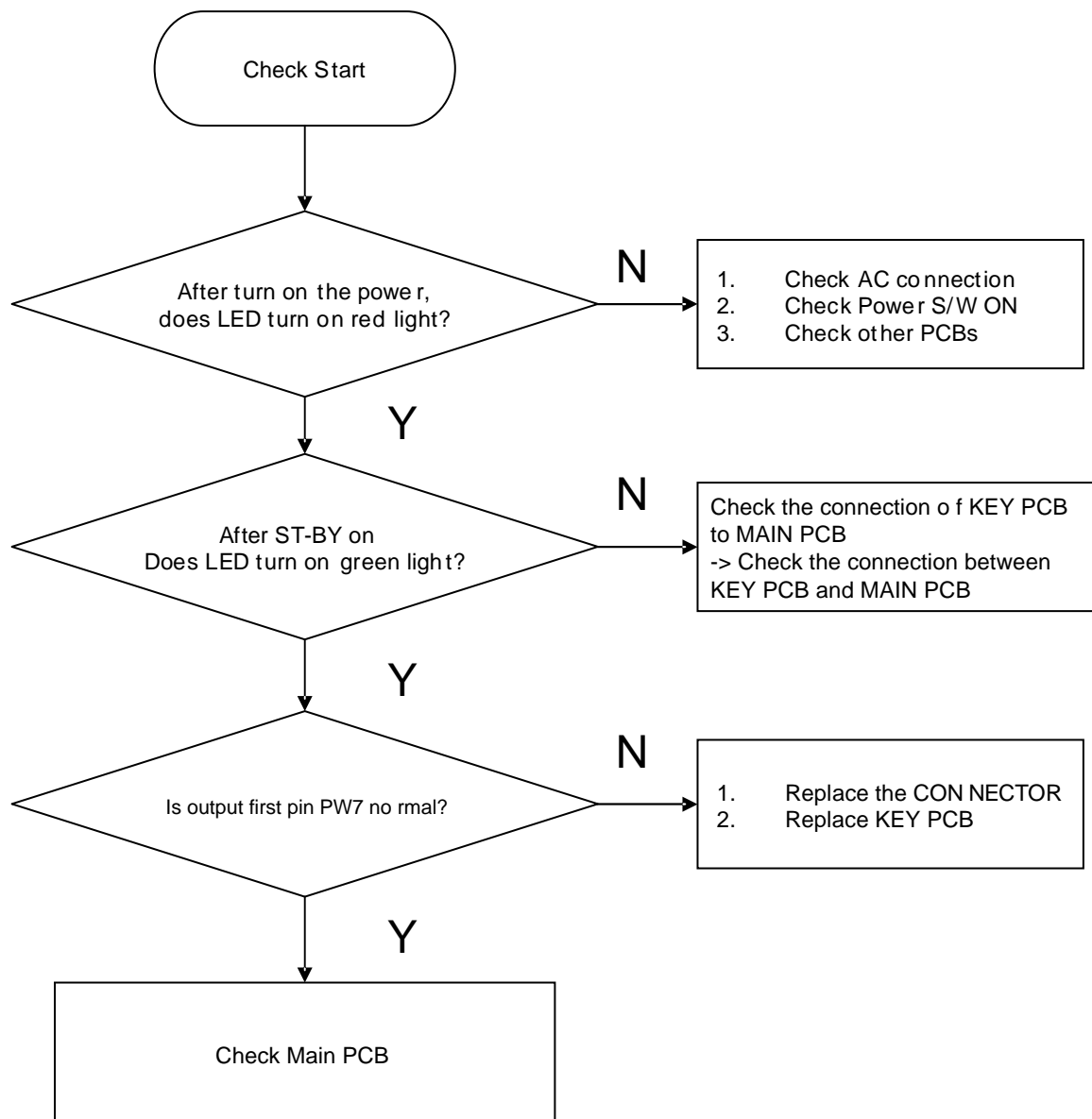
Sound Signal (Output of IC 601)

Location: L Sound(RC611, CE605), R Sound(RC609, CE604)



Main PCB Trouble Diagnosis

7-1-3. When Control Key does not operate

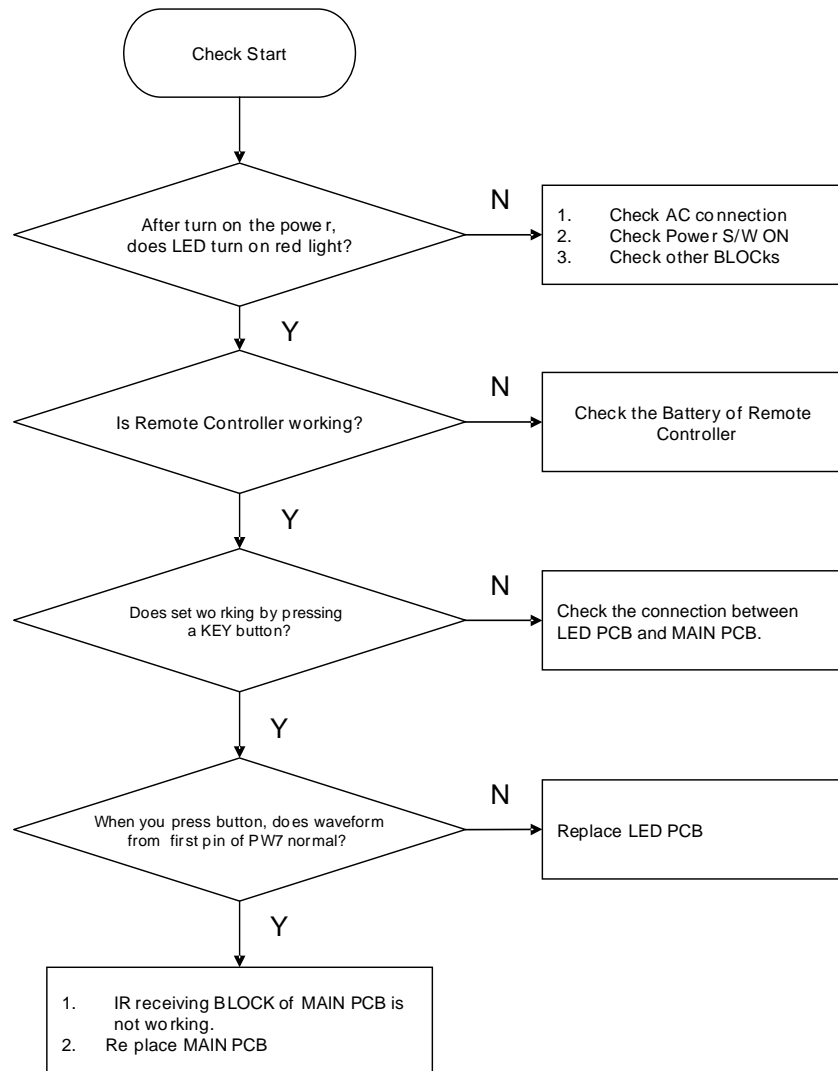


- A. First check connection, and then check the output of first pin of PW6(ST-BY 3.3V).
B. Check waveform third pin and 5th pin of PW6. If waveform does not appear, replace Connector or KEY PCB

- Main TP
RCW9(KEY1), RCW10(KEY2)

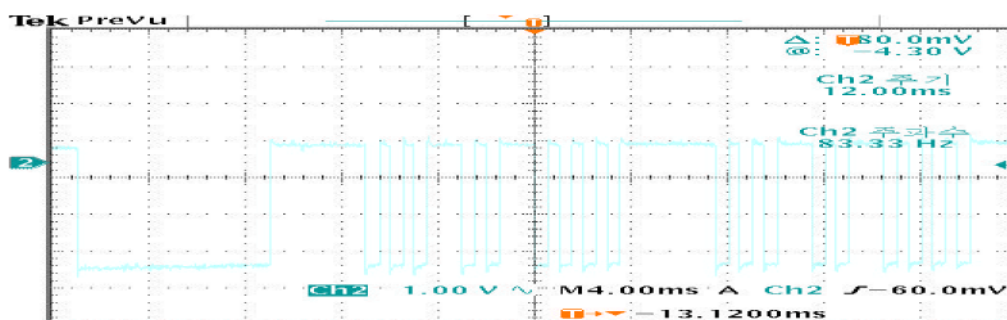
Main PCB Trouble Diagnosis

7-1-4. When Remote Controller does not operate.



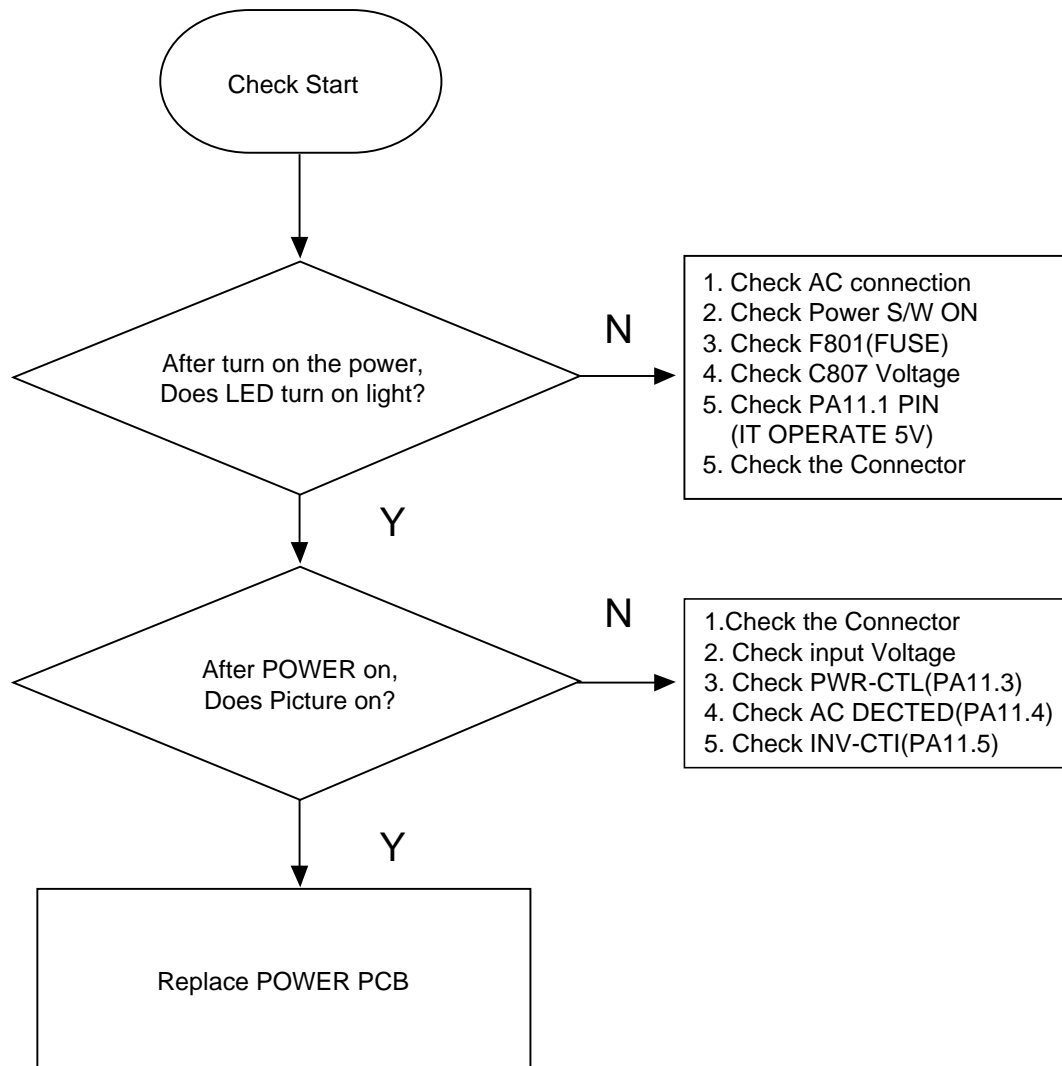
- A. Check the connection between Main PCB and LED PCB.
- B. Check the waveform first pin of PW7 to confirm IR operation.
IF IR is not working, replace the LED PCB

Remote control signal (First pin of PW7)



Main PCB Trouble Diagnosis

7-2. POWER PCB

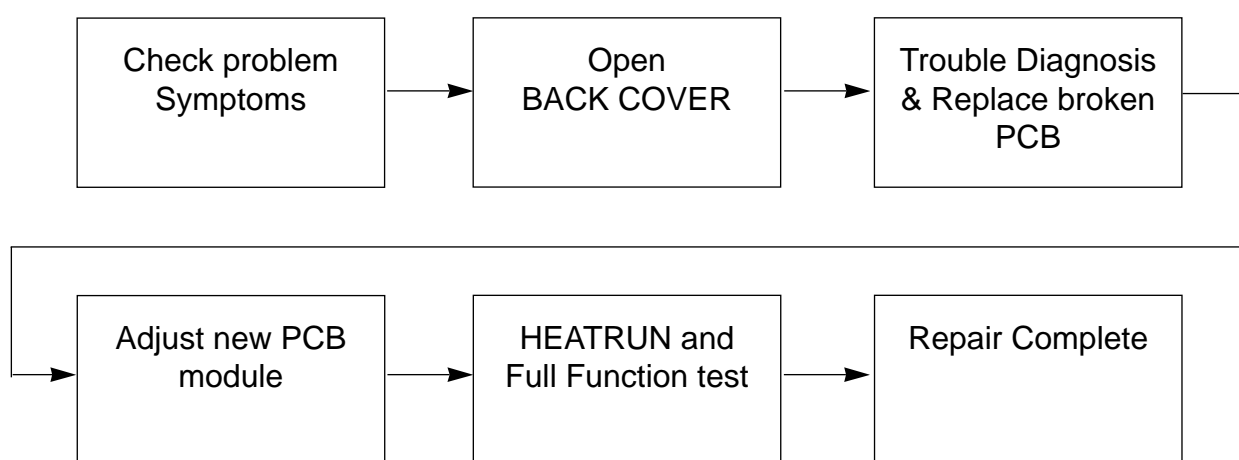


- A. Check AC connection is correct.
- B. Check AC Switch ON.
- C. Check F801(FUSE) is working.
- D. Check all wafer output is correct. (refer to 4.3 POWER PCB)

8. TROUBLE DIAGNOSIS

8-1. Facts you must know when trouble diagnosing or repairing.

- A. Trouble diagnosing and repairing of set mean find out which PCBs or blocks are not working and replace them with new PCBs. Repairing the broken PCBs are not necessary. Keep the broken PCBs and return them to service center or R&D center.
- B. This TROUBLE DIAGNOSIS list only contains representative and simple PCB trouble diagnosis and Module Exchange method. Therefore, if you find Sets that are difficult to diagnosis or to repair, contact R&D center.
- C. Basic TROUBLE DIAGNOSIS process.



Note : HEATRAN is conducted for at least 30 minutes with input TEST PATTERN FULL WHITE

D. Required equipments for trouble diagnosis

- Digital Multimeter
User Mode: measure DC VOLTAGE, DIODE VOLTAGE, SHORT/OPEN TEST
- Screwdriver or electric screwdriver, plastic adjusting tool
- Oscilloscope (for detailed examination only)

E. Each BLOCK operations explained in this manual include oscilloscope waveforms, but these are for reference only and utilizing them to repair PCBs is not necessary.

F. Before replacing PCBs, you MUST turn off the AC switch.

G. After replacing POWER, MAIN and SUB PCB, extra adjustment might be needed.
(Refer to 6. Adjusting Method)

H. After the set is repaired, leave BACK COVER open for followings. Run HEATRAN for at least 30 minutes by displaying TEST PATTERN (Full White) of SERVICE MODE (Refer to Service Manual, 5. Service Mode). Check the screen conditions and basic functions. (Remote Controller operation etc.)

J. After BACK COVER is closed, redo HEATRAN for at least one hour with Full White input using TEST PATTERN of SERVICE MODE. Check the screen conditions and basic functions.

TROUBLE DIAGNOSIS

8-2. Typical Symptoms of PCBs problem or bad connection

A. Symptom of initial latch up

- Define initial latch up: When turn on the power, both LEDs light up red and TV is not working.
- Repairing method: This is typical symptom when ROM(ICU3) is incorrectly connected at socket. So if you find this symptom, you must try to that ROM(ICU3) and socket have correct contact.
- As this method, TV set is not repaired, replace MAIN PCB.

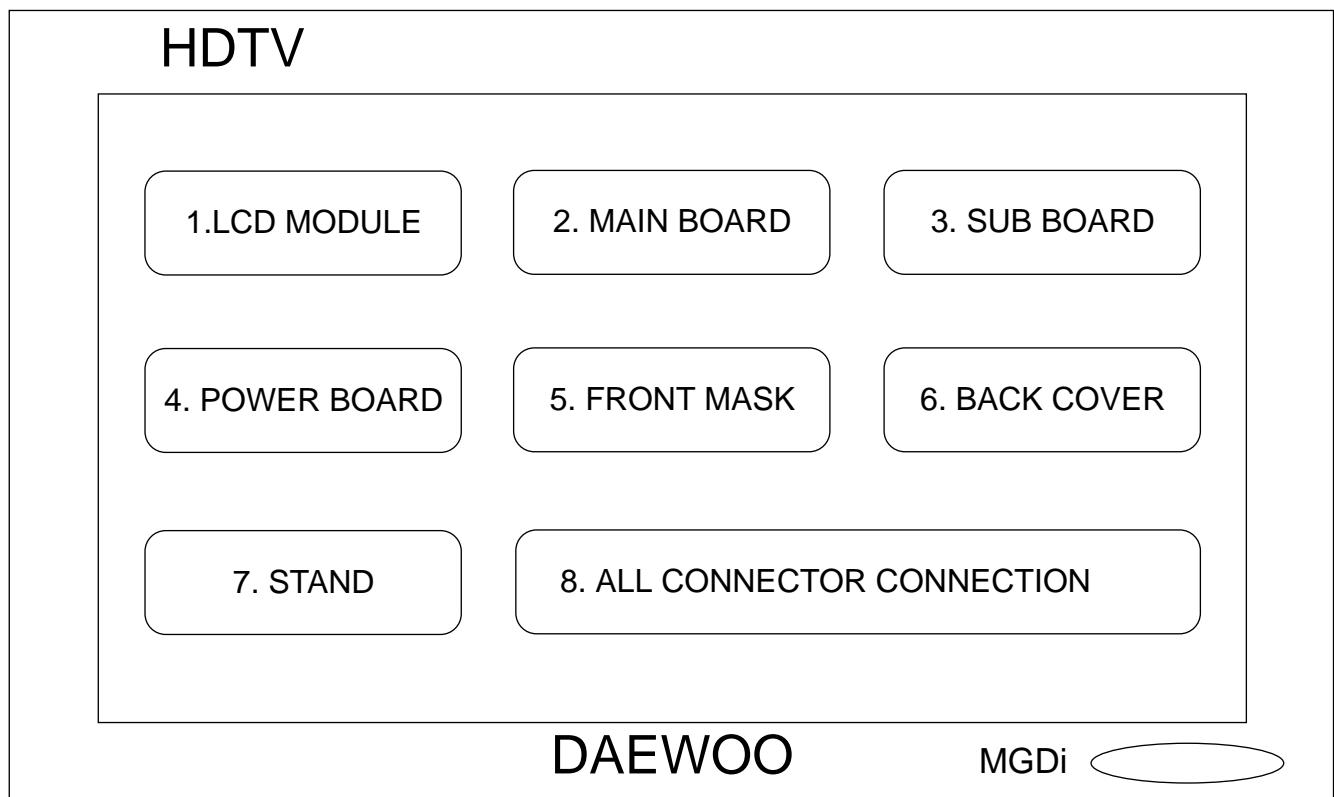
B. Symptom of No image when LED and Back Light are working.

- Define No image: LED and BACK LIGHT of panel are correctly working but any image does not display.
- Repairing method: This is typical symptom when LVDS cable incorrectly connects. So if you find this symptom, check LVDS connection.
- As this method, TV set is not repaired, replace Main or Sub PCB.



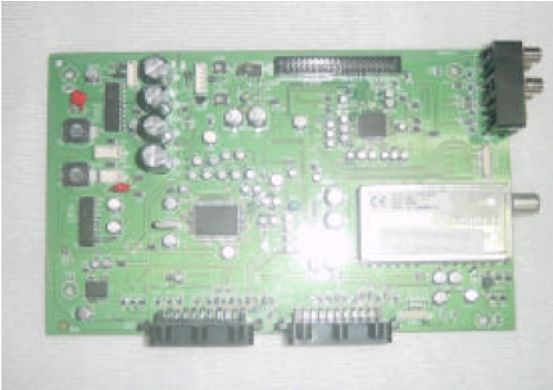

C. Representative Symptom caused by bad Connection between PCBs

- => Note: Dust or extraneous material may cause bad connections. Most of the time, applying soft brush, AIR FRESHER, or breath to clean dust or extraneous materials can solve it . And then reassemble the Connector.

9. STRUCTURE OF LCD SET



STRUCTURE OF LCD SET

COMPONENT	PICTURE	REMARK
1. LCD MODULE		
2. MAIN BOARD		
3. SUB BOARD		
4. POWER BOARD		

STRUCTURE OF LCD SET

COMPONENT	PICTURE	REMARK
5. FRONT MASK		
6. BACK COVER		
7. STAND		
8. ALL CONNECTOR CONNECTION		

10. Service part list

10-1. DLP-2612APSB Part List

LOC	PART CODE	PART NAME	DESCRIPTION	REMARK
ZZ100	48B5550K14	TRANSMITTER REMOCON	R-50K14 (AA)	
ZZ110	PTACPWE125	ACCESSORY AS	DLP-3212SPS	
M821	4858213803	BAG INSTRUCTION	L.D.P.E TO.05X250X400(+20)	
M861	48586210E1	MANUAL INSTRUCTION	ENGLISH	
PWC1	48599DM009	CORD POWER AS	EU LP-33+LS-60=2.0M(CORE)	
ZZ120	PTBCSHE134	COVER BACK AS	DLP-2612SPS	
M211	4852173011	COVER BACK	ABS GY	
M211A	7172401412	SCREW TAPTITE	TT2 TRS 4X14 MFZN BK	
M211B	7002400812	SCREW MACHINE	TRS 4X8 MFZN BK	
M211C	4857817610	CLOTH BLACK	FELT 300X20X0.7	
M211D	4857817611	CLOTH BLACK	FELT 200X20X0.7	
M322	4853295300	BRKT SUPPORT B	EGI T1.0	
M322A	7172400811	SCREW TAPTITE	TT2 TRS 4X8 MFZN	
ZZ130	PTPKCE134	PACKING AS	DLP-2612SPS	
M801	4858068100	BOX CARTON	DW-3	
M811	485819BU00	PAD	EPS	
M822	4858215601	BAG P.E	PE FOAM 10.5x1600x1270	
ZZ140	PTCACAG098	CABINET AS	DLP-2612APSB	
FC3	4850K01000	CORE FERRITE	BNF-18	
FC4	97P8600400	CORE FERRITE	BNF-1528F	
M231B	7172400812	SCREW TAPTITE	TT2 TRS 4X8 MFZN BK	
M351A	7178301011	SCREW TAPTITE	TT2 WAS 3X10 MFZN	
M381B	7172401412	SCREW TAPTITE	TT2 TRS 4X14 MFZN BK	
M381F	4856815910	CLAMP WIRE	EGI T0.4+TUBE+PIE 4.2	
M382	4853826900	FRAME SURPORT	SECC 2T	
M382A	7172401412	SCREW TAPTITE	TT2 TRS 4X14 MFZN BK	
M383	4853826700	FRAME BAR	SECC 1.6T	
M383A	7002400812	SCREW MACHINE	TRS 4X8 MFZN BK	
M383B	7172401412	SCREW TAPTITE	TT2 TRS 4X14 MFZN BK	
M492	4854962213	BUTTON POWER	ABS GY	
M492A	4856013600	SCREW SPKR FIX	SWRM+SECC	
M541	4855421200	SPEC PLATE	P.E 149X59	
M591	4855942000	DECO TERM A	PVC 0.25T(EUROPE)	
M592	4855942100	DECO TERM B	PVC 0.25T(EUROPE)	
M681	4856812400	BAND PP AUTO	T1.1XW17MMXL770M	
M721	4857253900	SHIELD CASE	SPTH 0.5T	
M721A	7173301012	SCREW TAPTITE	TT2 BIN 3X10 MFZN BK	
M721B	485A100471	TAPE EMI	CU+NI 30X51XT0.2	
M722	4857254000	SHIELD JACK A	AL 5052 1T(CORE A)	
M722A	7173301012	SCREW TAPTITE	TT2 BIN 3X10 MFZN BK	
M722C	485A100572	IO GASKET	CU+NI T1.0 VER6	
M722D	4857913310	RUBBER CUSHION	FR RUBBER SPONGE 7X15XT6	
M723	4857254100	SHIELD JACK B	AL 5052 1T(CORE A)	
M723A	7173301012	SCREW TAPTITE	TT2 BIN 3X10 MFZN BK	
M723B	485A106370	SHIELDRON	10X55X1T	
M723C	4857818704	CLOTH BLACK	FELT T0.7 L=55 W=15	
PC30	4859004160	CABLE LVDS	1001-31FC-N+FH10002-30+3212APSB-300	
V901	485LD13260	LCD PANEL	T260XW02 V0	
ZZ200	PTFMSJE134	MASK FRONT AS	DLP-2612SPS	
M201	4852090911	MASK FRONT	ABS GY	
M201A	4857743800	CUSION PANEL	PVC 400 X 10 T=1.0	
M201B	4857743900	CUSION PANEL	PVC 300 X 10 T=1.0	
M561	48556293SD	MARK BRAND	SILVER DIA-CUTTING	
ZZ210	PTSPWE125	SPEAKER AS	DLP-3212SPS	
SP01	48A8310000	SPEAKER SYSTEM	SS-63A01	
SP01A	4856016100	SCREW SPECIAL	SWRM	
SP02A	4856016100	SCREW SPECIAL	SWRM	
ZZ220	PTSNSWE125	STAND AS	DLP-3212SPS	
M212	4852173211	COVER STAND BASE	HIPS GY	
M384	4853827000	FRAME STAND	AL	
M521	4855217900	PLATE BASE STAND	SECC 2T	
M521A	7005501611	SCREW MACHINE	FLT 5X16 MF	
M521B	7125401210	SCREW TAPPING	T2S FLT 4X12 MFZN WH	
M521C	4852937500	RUBBER BOTTOM	CR60 BK PHI 18.0 X T 3.0	
ZZ290	PTMPMSG098	PCB MAIN MANUAL AS	DLP-2612APSB	
DZ1	DMTZJ6R2C-	DIODE ZENER	MTZJ 6.2C	
DZ2	DUZ8R2BL-	DIODE ZENER	UZ-8.2BL	
DZ3	DMTZJ6R2C-	DIODE ZENER	MTZJ 6.2C	

LOC	PART CODE	PART NAME	DESCRIPTION	REMARK
FC1	4850K01600	CORE FERRITE	BNF-2629	
ICU3U	149L04070Q	IC CHIP FLASH MEMORY	F49L040-70NP	
JP11	4859100780	JACK DVI-I	AVI-10245-28B	
JP12	4859203101	CONN D-SUB	SHF-015-F900-22/NJ	
JP13	4959101160	JACK STEREO	DHAE-9415	
JP3	4859116350	JACK PIN	DPAM-0531-6	
LP1	58C0000116	COIL BEAD	HC-3550R	
LP2	58C0000116	COIL BEAD	HC-3550R	
LP3	58C0000116	COIL BEAD	HC-3550R	
LP4	58C0000116	COIL BEAD	HC-3550R	
M235	4857032501	HEAT SINK	AL EX BK L=26	
M381	4853826600	FRAME MAIN PCB	SECC 1T(CORE A)	
M381A	7002400812	SCREW MACHINE	TRS 4X8 MFZN BK	
M381C	7008300811	SCREW MACHINE	WAS 3X8 MFZN	
M381D	4856815900	CLAMP WIRE	EGI T0.4+TUBE+PIE 3.2	
M381E	4856812001	TIE CABLE	NYLON66 DA100	
M381G	4956800200	CLAMP WIRE	WS-A-2-19	
PC11	4850708518	CONNECTOR	YMH025-08R+YMH025-08R+ULW=200	
PC12	4850710S16	CONNECTOR	YMH025-10R+YMH025-10R+ULW=200	
PC12A	4850714N03	CONNECTOR	20022HS-14+20022HS-14+ULW=200	
PM100	4850M10210	MODULE POWER	DEP32-200B	
PW11	4959208020	CONN WAFER	YMW025-08R	
PW12	4959210020	CONN WAFER	YMW025-10R	
PW15	4859295320	CONN WAFER	4604-40MV2B-1 PLUG 40P ST	
PW15A	4850740S01	CONNECTOR	40H-40H=70MM FLAT	
PW4	485923162S	CONN WAFER	YVW025-03 (STICK)	
PW5	485923162S	CONN WAFER	YVW025-03 (STICK)	
RP1	RN02B478JS	R METAL FILM	2W 0.47 OHM J SMALL	
RP2	RN02B478JS	R METAL FILM	2W 0.47 OHM J SMALL	
RP3	RN02B478JS	R METAL FILM	2W 0.47 OHM J SMALL	
S1	5S50101Z90	SW TACT	THVV502GDA	
XS1	5XJ14R31AE	CRYSTAL QUARTZ	HC-49/S 14.31818MHZ 30PPM	
XU1	5XE6R0000C	CRYSTAL QUARTZ	HC-49/U 6.000MHZ 20PPM	
XV1	5XE20R250E	CRYSTAL QUARTZ	HC-49/U 20.2500MHZ 30PPM	
ZZ200	PTMPJ2G098	PCB MAIN CHIP MOUNT B AS	DLP-2612APSB	
CCA11	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCA12	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCA13	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCA14	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCA15	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCA16	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCA17	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCA18	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCA19	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCA20	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCA21	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCA22	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCA23	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCA24	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCA25	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCA26	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCA27	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCA28	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCA9	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCD1	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCD10	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCD11	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCD12	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCD13	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCD14	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCD17	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCD18	HCQK331JBA	C CHIP CERA	50V CH 330PF J 1608	
CCD2	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCD3	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCD4	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCD5	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCD6	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCD7	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	

Service part list

LOC	PART CODE	PART NAME	DESCRIPTION	REMARK
CCV32	HCBK152KBA	C CHIP CERA	50V X7R 1500PF K 1608	
CCV33	HCQK151JBA	C CHIP CERA	50V CH 150PF J 1608	
CCV34	HCFF224ZBA	C CHIP CERA	16V Y5V 0.22MF Z 1608	
CCV35	HCQK339JBA	C CHIP CERA	50V CH 390PF J 1608	
CCV4	HCBK683KBA	C CHIP CERA	X7R 50V 0.068MF K 1608	
CCV45	HCBK683KBA	C CHIP CERA	X7R 50V 0.068MF K 1608	
CCV5	HCBK683KBA	C CHIP CERA	X7R 50V 0.068MF K 1608	
CCV6	HCBK683KBA	C CHIP CERA	X7R 50V 0.068MF K 1608	
CCV7	HCQK339JBA	C CHIP CERA	50V CH 3.3PF J 1608	
CCV8	HCQK339JBA	C CHIP CERA	50V CH 3.3PF J 1608	
CCV9	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCW1	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCW2	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCW3	HCQK101JBA	C CHIP CERA	50V CH 100PF J 1608	
LCI16	HFF400B00A	F CHIP FERRITE BEAD	40 OHM GBK 1608	
LCI17	HFF400B00A	F CHIP FERRITE BEAD	40 OHM GBK 1608	
LCI18	HFF400B00A	F CHIP FERRITE BEAD	40 OHM GBK 1608	
LCI19	HFF400B00A	F CHIP FERRITE BEAD	40 OHM GBK 1608	
LCI21	HFF400B00A	F CHIP FERRITE BEAD	40 OHM GBK 1608	
LCI22	HFF400B00A	F CHIP FERRITE BEAD	40 OHM GBK 1608	
LCI23	HFF400B00A	F CHIP FERRITE BEAD	40 OHM GBK 1608	
LCI24	HFF400B00A	F CHIP FERRITE BEAD	40 OHM GBK 1608	
LCI25	HFF400B00A	F CHIP FERRITE BEAD	40 OHM GBK 1608	
LCI26	HFF400B00A	F CHIP FERRITE BEAD	40 OHM GBK 1608	
LCI27	HFF400B00A	F CHIP FERRITE BEAD	40 OHM GBK 1608	
LCI28	HFF400B00A	F CHIP FERRITE BEAD	40 OHM GBK 1608	
LCL2	HFF300B00A	F CHIP FERRITE BEAD	30 OHM PBV 1608	
LCS1	HFF400B00A	F CHIP FERRITE BEAD	40 OHM GBK 1608	
LCS10	HFF121B00A	F CHIP FERRITE BEAD	120 OHM GBK 1608	
LCS11	HFF121B00A	F CHIP FERRITE BEAD	120 OHM GBK 1608	
LCS12	HFF121B00A	F CHIP FERRITE BEAD	120 OHM GBK 1608	
LCS13	HFF121B00A	F CHIP FERRITE BEAD	120 OHM GBK 1608	
LCS14	HFF121B00A	F CHIP FERRITE BEAD	120 OHM GBK 1608	
LCS15	HFF400B00A	F CHIP FERRITE BEAD	40 OHM GBK 1608	
LCS16	HFF400B00A	F CHIP FERRITE BEAD	40 OHM GBK 1608	
LCS2	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
LCS31	HFF300B01A	F CHIP FERRITE BEAD	30 OHM UPB 1608	
LCS4	HFF121B00A	F CHIP FERRITE BEAD	120 OHM GBK 1608	
LCS5	HFF121B00A	F CHIP FERRITE BEAD	120 OHM GBK 1608	
LCS6	HFF121B00A	F CHIP FERRITE BEAD	120 OHM GBK 1608	
LCS7	HFF121B00A	F CHIP FERRITE BEAD	120 OHM GBK 1608	
LCS8	HFF121B00A	F CHIP FERRITE BEAD	120 OHM GBK 1608	
LCS9	HFF121B00A	F CHIP FERRITE BEAD	120 OHM GBK 1608	
LCV11	HFF121B00A	F CHIP FERRITE BEAD	120 OHM GBK 1608	
LCV18	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
LCV19	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
LCV20	HFF300B01A	F CHIP FERRITE BEAD	30 OHM UPB 1608	
RCA6	HRFT102JBA	R CHIP	1/10 1K OHM J 1608	
RCA7	HRFT102JBA	R CHIP	1/10 1K OHM J 1608	
RCD13	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
RCD17	HRFT391FBA	R CHIP	1/10 390 OHM F 1608	
RCI1	HRFT224JBA	R CHIP	1/10 220K OHM J 1608	
RCI10	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
RCI11	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
RCI12	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
RCI18	HRFT270JBA	R CHIP	1/10 27 OHM J 1608	
RCI2	HRFT224JBA	R CHIP	1/10 220K OHM J 1608	
RCI21	HRFT222JBA	R CHIP	1/10 2.2K OHM J 1608	
RCI22	HRFT222JBA	R CHIP	1/10 2.2K OHM J 1608	
RCI23	HRFT220JBA	R CHIP	1/10 22 OHM J 1608	
RCI24	HRFT220JBA	R CHIP	1/10 22 OHM J 1608	
RCI25	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RCI26	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RCI34	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
RCI35	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
RCI36	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
RCI37	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
RCI38	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	

LOC	PART CODE	PART NAME	DESCRIPTION	REMARK
RCI39	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
RCI41	HRFT479JBA	R CHIP	1/10 4.7 OHM J 1608	
RCI42	HRFT331JBA	R CHIP	1/10 330 OHM J 1608	
RCI43	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
RCI44	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
RCI5	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
RCI6	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
RCI72	HRFT331JBA	R CHIP	1/10 330 OHM J 1608	
RCI77	HRFT479JBA	R CHIP	1/10 4.7 OHM J 1608	
RCI79	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
RCI80	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
RCI81	HRFT331JBA	R CHIP	1/10 330 OHM J 1608	
RCI82	HRFT479JBA	R CHIP	1/10 4.7 OHM J 1608	
RCI83	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
RCI84	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
RCI85	HRFT331JBA	R CHIP	1/10 330 OHM J 1608	
RCI86	HRFT479JBA	R CHIP	1/10 4.7 OHM J 1608	
RCI87	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
RCI88	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
RCI89	HRFT331JBA	R CHIP	1/10 330 OHM J 1608	
RCI90	HRFT479JBA	R CHIP	1/10 4.7 OHM J 1608	
RCI91	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
RCI92	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
RCI93	HRFT331JBA	R CHIP	1/10 330 OHM J 1608	
RCI95	HRFT479JBA	R CHIP	1/10 4.7 OHM J 1608	
RCJ10	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
RCJ11	HRFT470JBA	R CHIP	1/10 47 OHM J 1608	
RCJ12	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
RCJ13	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
RCJ14	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RCJ4	HRFT470JBA	R CHIP	1/10 47 OHM J 1608	
RCJ5	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RCJ50	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
RCJ6	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RCJ7	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RCJ8	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RCL16	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
RCL24	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RCL25	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608	
RCL26	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608	
RCL27	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RCL3	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RCL4	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
RCL50	HRFT102JBA	R CHIP	1/10 1K OHM J 1608	
RCL9	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608	
RCP1	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
RCP2	HRFT201JBA	R CHIP	1/10 200 OHM J 1608	
RCP3	HRFS682JBA	R CHIP	1/16 6.8K OHM J 1608	
RCP5	HRFT102JBA	R CHIP	1/10 1K OHM J 1608	
RCP6	HRFT511JBA	R CHIP	1/10 510 OHM J 1608	
RCS12	HRFT510JBA	R CHIP	1/10 51 OHM J 1608	
RCS13	HRFT510JBA	R CHIP	1/10 51 OHM J 1608	
RCS14	HRFT510JBA	R CHIP	1/10 51 OHM J 1608	
RCS15	HRFT510JBA	R CHIP	1/10 51 OHM J 1608	
RCS20	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
RCS21	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
RCS22	HRFT102JBA	R CHIP	1/10 1K OHM J 1608	
RCS23	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
RCS24	HRFT221JBA	R CHIP	1/10 220 OHM J 1608	
RCS30	HRFT102JBA	R CHIP	1/10 1K OHM J 1608	
RCS43	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
RCS49	HRFT331JBA	R CHIP	1/10 330 OHM J 1608	
RCS50	HRFT331JBA	R CHIP	1/10 330 OHM J 1608	
RCS51	HRFT331JBA	R CHIP	1/10 330 OHM J 1608	
RCS54	HRFT752JBA	R CHIP	1/10 7.5K OHM J 1608	
RCS55	HRFT512JBA	R CHIP	1/10 5.1K OHM J 1608	
RCS56	HRFT512JBA	R CHIP	1/10 5.1K OHM J 1608	
RCS58	HRFT561JBA	R CHIP	1/10 560 OHM J 1608	

Service part list

LOC	PART CODE	PART NAME	DESCRIPTION	REMARK
RCS59	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
RCS7	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
RCU1	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RCU2	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RCU24	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
RCU35	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
RCU37	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RCU38	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
RCU39	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RCU4	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
RCU40	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
RCU44	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RCU45	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RCU47	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
RCU49	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
RCU5	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
RCU50	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
RCU51	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RCU52	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RCU53	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
RCU6	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RCU61	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RCU62	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RCU63	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RCU7	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RCU8	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
RCU85	HRFT203JBA	R CHIP	1/10 20K OHM J 1608	
RCU87	HRFT203JBA	R CHIP	1/10 20K OHM J 1608	
RCU88	HRFT331JBA	R CHIP	1/10 330 OHM J 1608	
RCU89	HRFT331JBA	R CHIP	1/10 330 OHM J 1608	
RCU91	HRFT331JBA	R CHIP	1/10 330 OHM J 1608	
RCV1	HRFT473JBA	R CHIP	1/10 47K OHM J 1608	
RCV12	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
RCV3	HRFT223JBA	R CHIP	1/10 22K OHM J 1608	
RCV37	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
RCV38	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
RCV4	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RCV5	HRFT471JBA	R CHIP	1/10 470 OHM J 1608	
RCV6	HRFT331JBA	R CHIP	1/10 330 OHM J 1608	
RCW1	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
RCW10	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RCW11	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608	
RCW12	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608	
RCW13	HRFT561JBA	R CHIP	1/10 560 OHM J 1608	
RCW14	HRFT102JBA	R CHIP	1/10 1K OHM J 1608	
RCW15	HRFT152JBA	R CHIP	1/10 1.5K OHM J 1608	
RCW16	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
RCW17	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RCW18	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
RCW19	HRFT102JBA	R CHIP	1/10 1K OHM J 1608	
RCW2	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
RCW20	HRFT122JBA	R CHIP	1/10 1.2K OHM J 1608	
RCW3	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
RCW4	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
RCW7	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RCW8	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RCW9	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
ZZ200	PTMPJG098	PCB MAIN (RHU) AS	DLP-2612APSB	
ZZ200	PTMPJB098	PCB MAIN M-10 AS	DLP-2612APSB	
ZZ200	PTMPJRG098	PCB MAIN RADIAL AS	DLP-2612APSB	
ZZ200	PTMPJAG098	PCB MAIN AXIAL AS	DLP-2612APSB	
A001	4859818291	PCB MAIN	234X285 K4V	
ZZ200	PTMPJ1G098	PCB MAIN CHIP MOUNT A AS	DLP-2612APSB	
CCA10	HCQK470JBA	C CHIP CERA	50V CH 47PF J 1608	
CCA2	HCQK470JBA	C CHIP CERA	50V CH 47PF J 1608	
CCA3	HCQK470JBA	C CHIP CERA	50V CH 47PF J 1608	
CCA4	HCBK473KBA	C CHIP CERA	50V X7R 0.047MF K 1608	
CCA5	HCBK473KBA	C CHIP CERA	50V X7R 0.047MF K 1608	

LOC	PART CODE	PART NAME	DESCRIPTION	REMARK
CCA6	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608	
CCA7	HCBK473KBA	C CHIP CERA	50V X7R 0.047MF K 1608	
CCA8	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCD15	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCD16	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCI11	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	
CCI12	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCI4	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCJ2	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCL11	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCP17	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCP2	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCP24	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCP25	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCP3	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCP4	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCP6	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCS6	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCS60	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCS61	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCS62	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCS63	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCS64	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCS65	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCS66	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCS67	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCS68	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCS69	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCS70	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCS71	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCS74	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCS77	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCS78	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCU1	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCU10	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCU19	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCU20	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCU21	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCU51	HCFF224ZBA	C CHIP CERA	16V Y5V 0.22MF Z 1608	
CCU8	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CCV11	HCQK151JBA	C CHIP CERA	50V CH 150PF J 1608	
CCV12	HCBK473KBA	C CHIP CERA	50V X7R 0.047MF K 1608	
CCV13	HCBK473KBA	C CHIP CERA	50V X7R 0.047MF K 1608	
CCV14	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608	
CCV15	HCBK684KBA	C CHIP CERA	10V X7R 0.68MF K 1608	
CCV16	HCBK684KBA	C CHIP CERA	10V X7R 0.68MF K 1608	
CCV20	HCFF224ZBA	C CHIP CERA	16V Y5V 0.22MF Z 1608	
CCV21	HCQK391JBA	C CHIP CERA	50V CH 390PF J 1608	
CCV22	HCFF224ZBA	C CHIP CERA	16V Y5V 0.22MF Z 1608	
CCV23	HCQK391JBA	C CHIP CERA	50V CH 390PF J 1608	
CCV24	HCFF224ZBA	C CHIP CERA	16V Y5V 0.22MF Z 1608	
CCV25	HCQK391JBA	C CHIP CERA	50V CH 390PF J 1608	
CCV27	HCFF224ZBA	C CHIP CERA	16V Y5V 0.22MF Z 1608	
CCV28	HCBK152KBA	C CHIP CERA	50V X7R 1500PF K 1608	
CCV29	HCQK391JBA	C CHIP CERA	50V CH 390PF J 1608	
CCV30	HCFF224ZBA	C CHIP CERA	16V Y5V 0.22MF Z 1608	
CCV36	HCFF224ZBA	C CHIP CERA	16V Y5V 0.22MF Z 1608	
CCV37	HCFF224ZBA	C CHIP CERA	16V Y5V 0.22MF Z 1608	
CCV38	HCFF224ZBA	C CHIP CERA	16V Y5V 0.22MF Z 1608	
CCV44	HCQK680JBA	C CHIP CERA	50V CH 68PF J 1608	
CE1	HCELH100MC	C CHIP ELECTRO	25V 10MF CM 4052	
CE2	HCELH100MC	C CHIP ELECTRO	25V 10MF CM 4052	
CE3	HCELH100MC	C CHIP ELECTRO	25V 10MF CM 4052	
CE4	HCELH100MC	C CHIP ELECTRO	25V 10MF CM 4052	
CE5	HCELH100MC	C CHIP ELECTRO	25V 10MF CM 4052	
CE12	HCEJF470MC	C CHIP ELECTRO	16V 47MF CS 6352	
CE120	HCEJF470MC	C CHIP ELECTRO	16V 47MF CS 6352	
CE13	HCEJF470MC	C CHIP ELECTRO	16V 47MF CS 6352	

Service part list

LOC	PART CODE	PART NAME	DESCRIPTION	REMARK
CEI34	HCELF220MD	C CHIP ELECTRO	16V 22MF CM 4052	
CEI35	HCELF100MC	C CHIP ELECTRO	25V 10MF CM 4052	
CEI36	HCELF220MD	C CHIP ELECTRO	16V 22MF CM 4052	
CEI37	HCELF100MC	C CHIP ELECTRO	25V 10MF CM 4052	
CEI38	HCELF220MD	C CHIP ELECTRO	16V 22MF CM 4052	
CEI39	HCELF100MC	C CHIP ELECTRO	25V 10MF CM 4052	
CEI4	HCEJF470MC	C CHIP ELECTRO	16V 47MF CS 6352	
CEI40	HCELF220MD	C CHIP ELECTRO	16V 22MF CM 4052	
CEI41	HCELF100MC	C CHIP ELECTRO	25V 10MF CM 4052	
CEI42	HCELF220MD	C CHIP ELECTRO	16V 22MF CM 4052	
CEI44	HCELF220MD	C CHIP ELECTRO	16V 22MF CM 4052	
CEI45	HCELF100MC	C CHIP ELECTRO	25V 10MF CM 4052	
CEI5	HCEJF470MC	C CHIP ELECTRO	16V 47MF CS 6352	
CEI6	HCEJF470MC	C CHIP ELECTRO	16V 47MF CS 6352	
CEI7	HCEJF470MC	C CHIP ELECTRO	16V 47MF CS 6352	
CEI8	HCELF100MC	C CHIP ELECTRO	25V 10MF CM 4052	
CEI9	HCELF220MD	C CHIP ELECTRO	16V 22MF CM 4052	
CEJ1	HCELF220MD	C CHIP ELECTRO	16V 22MF CM 4052	
CEJ2	HCELF220MD	C CHIP ELECTRO	16V 22MF CM 4052	
CEL1	HCEEF101MC	C CHIP ELECTRO	MV 16V 100MF 6.3DX5.7H	
CEP1	HCEJF471MD	C CHIP ELECTRO	16V 470MF CS 1010	
CEP10	HCEJF471MD	C CHIP ELECTRO	16V 470MF CS 1010	
CEP11	HCEJF470MC	C CHIP ELECTRO	16V 47MF CS 6352	
CEP12	HCEJF471MD	C CHIP ELECTRO	16V 470MF CS 1010	
CEP13	HCEEF101MC	C CHIP ELECTRO	MV 16V 100MF 6.3DX5.7H	
CEP14	HCEJF470MC	C CHIP ELECTRO	16V 47MF CS 6352	
CEP15	HCEJF470MC	C CHIP ELECTRO	16V 47MF CS 6352	
CEP16	HCEEF101MC	C CHIP ELECTRO	MV 16V 100MF 6.3DX5.7H	
CEP17	HCEJF470MC	C CHIP ELECTRO	16V 47MF CS 6352	
CEP18	HCEEF101MC	C CHIP ELECTRO	MV 16V 100MF 6.3DX5.7H	
CEP19	HCEEF101MC	C CHIP ELECTRO	MV 16V 100MF 6.3DX5.7H	
CEP2	HCEJF471MD	C CHIP ELECTRO	16V 470MF CS 1010	
CEP20	HCEEF101MC	C CHIP ELECTRO	MV 16V 100MF 6.3DX5.7H	
CEP21	HCEEF101MC	C CHIP ELECTRO	MV 16V 100MF 6.3DX5.7H	
CEP22	HCEEF101MC	C CHIP ELECTRO	MV 16V 100MF 6.3DX5.7H	
CEP23	HCEEF101MC	C CHIP ELECTRO	MV 16V 100MF 6.3DX5.7H	
CEP24	HCEJF470MC	C CHIP ELECTRO	16V 47MF CS 6352	
CEP25	HCEJF470MC	C CHIP ELECTRO	16V 47MF CS 6352	
CEP28	HCEJF470MC	C CHIP ELECTRO	16V 47MF CS 6352	
CEP29	HCEEF101MC	C CHIP ELECTRO	MV 16V 100MF 6.3DX5.7H	
CEP3	HCEEF101MC	C CHIP ELECTRO	MV 16V 100MF 6.3DX5.7H	
CEP30	HCEJF470MC	C CHIP ELECTRO	16V 47MF CS 6352	
CEP32	HCEJF470MC	C CHIP ELECTRO	16V 47MF CS 6352	
CEP33	HCEEF101MC	C CHIP ELECTRO	MV 16V 100MF 6.3DX5.7H	
CEP34	HCEEF101MC	C CHIP ELECTRO	MV 16V 100MF 6.3DX5.7H	
CEP35	HCEJF470MC	C CHIP ELECTRO	16V 47MF CS 6352	
CEP36	HCEJF470MC	C CHIP ELECTRO	16V 47MF CS 6352	
CEP37	HCEEF101MC	C CHIP ELECTRO	MV 16V 100MF 6.3DX5.7H	
CEP38	HCEEF101MC	C CHIP ELECTRO	MV 16V 100MF 6.3DX5.7H	
CEP39	HCEEF101MC	C CHIP ELECTRO	MV 16V 100MF 6.3DX5.7H	
CEP4	HCEJF470MC	C CHIP ELECTRO	16V 47MF CS 6352	
CEP40	HCEJF470MC	C CHIP ELECTRO	16V 47MF CS 6352	
CEP42	HCELC102ME	C CHIP ELECTRO	6.3V 1000MF CM 8010	
CEP43	HCEEF101MC	C CHIP ELECTRO	MV 16V 100MF 6.3DX5.7H	
CEP44	HCEJF470MC	C CHIP ELECTRO	16V 47MF CS 6352	
CEP46	HCEEF101MC	C CHIP ELECTRO	MV 16V 100MF 6.3DX5.7H	
CEP47	HCEEF101MC	C CHIP ELECTRO	MV 16V 100MF 6.3DX5.7H	
CEP48	HCEJF470MC	C CHIP ELECTRO	16V 47MF CS 6352	
CEP5	HCEEF101MC	C CHIP ELECTRO	MV 16V 100MF 6.3DX5.7H	
CEP6	HCEJF470MC	C CHIP ELECTRO	16V 47MF CS 6352	
CEP7	HCEJF470MC	C CHIP ELECTRO	16V 47MF CS 6352	
CEP8	HCEJF471MD	C CHIP ELECTRO	16V 470MF CS 1010	
CEP9	HCEEF101MC	C CHIP ELECTRO	MV 16V 100MF 6.3DX5.7H	
CES10	HCELF220MD	C CHIP ELECTRO	16V 22MF CM 4052	
CES11	HCELC102ME	C CHIP ELECTRO	6.3V 1000MF CM 8010	
CES12	HCELC102ME	C CHIP ELECTRO	6.3V 1000MF CM 8010	
CES13	HCELC102ME	C CHIP ELECTRO	6.3V 1000MF CM 8010	
CES14	HCELF220MD	C CHIP ELECTRO	16V 22MF CM 4052	

LOC	PART CODE	PART NAME	DESCRIPTION	REMARK
CES15	HCELF220MD	C CHIP ELECTRO	16V 22MF CM 4052	
CES16	HCELF221ME	C CHIP ELECTRO	25V 220MF CM 8010	
CES17	HCELF220MD	C CHIP ELECTRO	16V 22MF CM 4052	
CES18	HCELF220MD	C CHIP ELECTRO	16V 22MF CM 4052	
CES22	HCELF220MD	C CHIP ELECTRO	16V 22MF CM 4052	
CES24	HCELF220MD	C CHIP ELECTRO	16V 22MF CM 4052	
CES25	HCELF220MD	C CHIP ELECTRO	16V 22MF CM 4052	
CES30	HCELF220MD	C CHIP ELECTRO	16V 22MF CM 4052	
CES31	HCELF220MD	C CHIP ELECTRO	16V 22MF CM 4052	
CES43	HCELF100MC	C CHIP ELECTRO	25V 10MF CM 4052	
CES5	HCELF220MD	C CHIP ELECTRO	16V 22MF CM 4052	
CES6	HCELF220MD	C CHIP ELECTRO	16V 22MF CM 4052	
CES7	HCELF220MD	C CHIP ELECTRO	16V 22MF CM 4052	
CES8	HCELF220MD	C CHIP ELECTRO	16V 22MF CM 4052	
CES9	HCELF220MD	C CHIP ELECTRO	16V 22MF CM 4052	
CEU1	HCELF100MC	C CHIP ELECTRO	25V 10MF CM 4052	
CEU2	HCBH224KCA	C CHIP CERA	25V X7R 0.22MF K 2012	
CEU5	HCELF100MC	C CHIP ELECTRO	25V 10MF CM 4052	
CEU6	HCELF100MC	C CHIP ELECTRO	25V 10MF CM 4052	
CEU7	HRFT684JCA	R CHIP	1/10 680K OHM J 2012	
CEU8	HCELF100MC	C CHIP ELECTRO	25V 10MF CM 4052	
CEV1	HCELF100MC	C CHIP ELECTRO	25V 10MF CM 4052	
CEV10	HCELF100MC	C CHIP ELECTRO	25V 10MF CM 4052	
CEV2	HCELF100MC	C CHIP ELECTRO	25V 10MF CM 4052	
CEV3	HCELF220MD	C CHIP ELECTRO	16V 22MF CM 4052	
CEV4	HCELF100MC	C CHIP ELECTRO	25V 10MF CM 4052	
CEV7	HCELF100MC	C CHIP ELECTRO	25V 10MF CM 4052	
CEV8	HCELF100MC	C CHIP ELECTRO	25V 10MF CM 4052	
DCI1	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)	
DCI10	DBAV99ML-B	DIODE CHIP	BAV99ML	
DCI11	DBAV99ML-B	DIODE CHIP	BAV99ML	
DCI12	DBAV99ML-B	DIODE CHIP	BAV99ML	
DCI13	DBAV99ML-B	DIODE CHIP	BAV99ML	
DCI14	DBAV99ML-B	DIODE CHIP	BAV99ML	
DCI15	DBAV99ML-B	DIODE CHIP	BAV99ML	
DCI16	DBAV99ML-B	DIODE CHIP	BAV99ML	
DCI17	DBAV99ML-B	DIODE CHIP	BAV99ML	
DCI18	DBAV99ML-B	DIODE CHIP	BAV99ML	
DCI19	DBAV99ML-B	DIODE CHIP	BAV99ML	
DCI2	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)	
DCI20	DBAV99ML-B	DIODE CHIP	BAV99ML	
DCI21	DBAV99ML-B	DIODE CHIP	BAV99ML	
DCI22	DBAV99ML-B	DIODE CHIP	BAV99ML	
DCI30	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)	
DCI31	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)	
DCI32	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)	
DCI5	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)	
DCI6	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)	
DCI7	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)	
DCI8	DBAV99ML-B	DIODE CHIP	BAV99ML	
DCI9	DBAV99ML-B	DIODE CHIP	BAV99ML	
DCS1	DBAV99ML-B	DIODE CHIP	BAV99ML	
DCU1	DBAV99ML-B	DIODE CHIP	BAV99ML	
DCU2	DBAV99ML-B	DIODE CHIP	BAV99ML	
DCU4	DBAV99ML-B	DIODE CHIP	BAV99ML	
DCU5	DBAV99ML-B	DIODE CHIP	BAV99ML	
DCU6	DBAV99ML-B	DIODE CHIP	BAV99ML	
DCU8	DBAV99ML-B	DIODE CHIP	BAV99ML	
DCU9	DBAV99ML-B	DIODE CHIP	BAV99ML	
ICA10	19883C110Q	IC CHIP ADC	MST9883CR-110 MSPS	
ICD10	1S1169CTUQ	IC CHIP PANEL LINK	SI1169CTU	
ICD11	1K1A7027TB	IC CHIP RESET	KIA7027AT 2.7V TSM TYPE	
ICJ2	1P15V330-D	IC CHIP VIDEO SWITCH	PI5V330	
ICI3	1BA7657F-E	IC CHIP SWITCH	BA7657F	
ICI4	1M74HC14TC	IC CHIP LOGIC	M74HC14TTR	
ICI5	124LC22A-C	IC CHIP EEPROM	24LC22AT-1SN SOIC8 REEL	
ICJ10	1JL003—Q	IC CHIP LSI	J-L003	
ICL1	T1RF7233—	FET CHIP	IRF7233	

Service part list

LOC	PART CODE	PART NAME	DESCRIPTION	REMARK
ICL10	1DTC34LM85	IC CHIP TRANSMITTER	DTC34LM85A	
ICL11	TFDS4953-C	FET CHIP	FDS4953 SO-8 -30V -5A REEL	
ICP1	1A1117E33D	IC CHIP REGULATOR	AP1117E33A 3.3V 2% SOT-223	
ICP10	1085D2M25C	IC CHIP REGULATOR	LD1085D2M25	
ICP11	1A1117E33D	IC CHIP REGULATOR	AP1117E33A 3.3V 2% SOT-223	
ICP12	1A1117E33D	IC CHIP REGULATOR	AP1117E33A 3.3V 2% SOT-223	
ICP2	1AP117E25C	IC CHIP REGULATOR	AP1117E25A 2.5V 2% SOT-223	
ICP3	1A1117E33D	IC CHIP REGULATOR	AP1117E33A 3.3V 2% SOT-223	
ICP4	1A1117E33D	IC CHIP REGULATOR	AP1117E33A 3.3V 2% SOT-223	
ICP6	1A1117E33D	IC CHIP REGULATOR	AP1117E33A 3.3V 2% SOT-223	
ICP7	1A1117E33D	IC CHIP REGULATOR	AP1117E33A 3.3V 2% SOT-223	
ICP8	1A1117E33D	IC CHIP REGULATOR	AP1117E33A 3.3V 2% SOT-223	
ICP9	1AP117E25C	IC CHIP REGULATOR	AP1117E25A 2.5V 2% SOT-223	
ICS1	1PTVSV70Q	IC CHIP SCALER	PANEL-TV-SVP (6970)	
ICS2	1M12L6432Q	IC CHIP SDRAM	M12L64322A-7T 143MHZ 86PIN TSOP	
ICS3	1M12L6432Q	IC CHIP SDRAM	M12L64322A-7T 143MHZ 86PIN TSOP	
ICU10	1SDA5550-Q	IC CHIP MICRO PROCESSOR	SDA5550(PQFP100)	
ICU15	1PCF8574DD	IC CHIP I/O EXPANDER	PCF8574DWR SOIC 16 REEL	
ICU2	12568BL55Q	IC CHIP SRAM	IS62WV2568BLL-55HLI	
ICU3	4859302510	SOCKET IC	WPLCC32S	
ICU4	1K1A7027TB	IC CHIP RESET	KIA7027AT 2.7V TSM TYPE	
ICU7	1PCF8574DD	IC CHIP I/O EXPANDER	PCF8574DWR SOIC 16 REEL	
ICU9	124LC16BTC	IC CHIP EEPROM	24LC16BT-I/SN 16K 8 PIN SOIC REEL	
ICV10	1VPC3230D-	IC CHIP VIDEO	VPC3230D-QA-C5 TRAY	
ICV11	1M74HC14TC	IC CHIP LOGIC	M74HC14TTR	
ICV12	1P15V330-D	IC CHIP VIDEO SWITCH	P15V330	
LCA1	HFF300B00A	F CHIP FERRITE BEAD	30 OHM PBV 1608	
LCA10	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
LCA11	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
LCA12	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
LCA2	HFF300B01A	F CHIP FERRITE BEAD	30 OHM UPB 1608	
LCA3	HFF300B01A	F CHIP FERRITE BEAD	30 OHM UPB 1608	
LCA4	HFF300B01A	F CHIP FERRITE BEAD	30 OHM UPB 1608	
LCA5	HFF300B01A	F CHIP FERRITE BEAD	30 OHM UPB 1608	
LCA6	HFF300B01A	F CHIP FERRITE BEAD	30 OHM UPB 1608	
LCA7	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
LCA8	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
LCA9	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
LCD1	HLC100J00A	L CHIP COIL	10UH NLC322522	
LCD2	HLC100J00A	L CHIP COIL	10UH NLC322522	
LCD3	HLC100J00A	L CHIP COIL	10UH NLC322522	
LCD4	HLC100J00A	L CHIP COIL	10UH NLC322522	
LCD5	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
LCI1	HFEACF470B	F CHIP EMI	ACF321825 47P	
LCI11	HLC100J00A	L CHIP COIL	10UH NLC322522	
LCI2	HFEACF470B	F CHIP EMI	ACF321825 47P	
LCI20	HLC100J00A	L CHIP COIL	10UH NLC322522	
LCI3	HFF400B00A	F CHIP FERRITE BEAD	40 OHM GBK 1608	
LCI4	HFF400B00A	F CHIP FERRITE BEAD	40 OHM GBK 1608	
LCI5	HFF400B00A	F CHIP FERRITE BEAD	40 OHM GBK 1608	
LCI6	HFF400B00A	F CHIP FERRITE BEAD	40 OHM GBK 1608	
LCI7	HFF400B00A	F CHIP FERRITE BEAD	40 OHM GBK 1608	
LCI8	HFF400B00A	F CHIP FERRITE BEAD	40 OHM GBK 1608	
LCI9	HFF121B00A	F CHIP FERRITE BEAD	120 OHM GBK 1608	
LCL20	HFF300B01A	F CHIP FERRITE BEAD	30 OHM UPB 1608	
LCL3	HFF300B01A	F CHIP FERRITE BEAD	30 OHM UPB 1608	
LCP1	HFF600C00A	F CHIP FERRITE BEAD	60 OHM UPB 2012	
LCP10	HLC100J00A	L CHIP COIL	10UH NLC322522	
LCP12	HLC479M02D	L CHIP COIL	4.7UH M SLF0628	
LCP13	HFF600C00A	F CHIP FERRITE BEAD	60 OHM UPB 2012	
LCP14	HFF600C00A	F CHIP FERRITE BEAD	60 OHM UPB 2012	
LCP15	HFF600C00A	F CHIP FERRITE BEAD	60 OHM UPB 2012	
LCP16	HFF600C00A	F CHIP FERRITE BEAD	60 OHM UPB 2012	
LCP17	HLC100J00A	L CHIP COIL	10UH NLC322522	
LCP18	HLC479M02D	L CHIP COIL	4.7UH M SLF0628	
LCP19	HLC109K00C	L CHIP COIL	1.0UH K NLC 3225	
LCP21	HLC479M02D	L CHIP COIL	4.7UH M SLF0628	
LCP22	HLC100J00A	L CHIP COIL	10UH NLC322522	

LOC	PART CODE	PART NAME	DESCRIPTION	REMARK
LCP23	HFF600C00A	F CHIP FERRITE BEAD	60 OHM UPB 2012	
LCP24	HLC100J00A	L CHIP COIL	10UH NLC322522	
LCP25	HLC100J00A	L CHIP COIL	10UH NLC322522	
LCP3	HLC100J00A	L CHIP COIL	10UH NLC322522	
LCP4	HLC100J00A	L CHIP COIL	10UH NLC322522	
LCP5	HLC109K00C	L CHIP COIL	1.0UH K NLC 3225	
LCP6	HFF600C00A	F CHIP FERRITE BEAD	60 OHM UPB 2012	
LCP7	HLC109K00C	L CHIP COIL	1.0UH K NLC 3225	
LCP8	HLC109K00C	L CHIP COIL	1.0UH K NLC 3225	
LCP9	HLC100J00A	L CHIP COIL	10UH NLC322522	
LCS3	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
LCS32	HFF300B01A	F CHIP FERRITE BEAD	30 OHM UPB 1608	
LCS33	HFF300B01A	F CHIP FERRITE BEAD	30 OHM UPB 1608	
LCS34	HFF300B01A	F CHIP FERRITE BEAD	30 OHM UPB 1608	
LCS35	HFF300B01A	F CHIP FERRITE BEAD	30 OHM UPB 1608	
LCS36	HFF300B01A	F CHIP FERRITE BEAD	30 OHM UPB 1608	
LCS37	HFF300B01A	F CHIP FERRITE BEAD	30 OHM UPB 1608	
LCV1	HFF400B00A	F CHIP FERRITE BEAD	40 OHM GBK 1608	
LCV10	HLC339K02A	L CHIP COIL	3.3UH MLF 2012	
LCV12	HLC829K00A	L CHIP COIL	8.2UH K MLF 2012	
LCV13	HFF400B00A	F CHIP FERRITE BEAD	40 OHM GBK 1608	
LCV17	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
LCV2	HLC100J00A	L CHIP COIL	10UH NLC322522	
LCV3	HLC339K00A	L CHIP COIL	3.3UH NLC322522	
LCV4	HFF400B00A	F CHIP FERRITE BEAD	40 OHM GBK 1608	
LCV5	HLC100J00A	L CHIP COIL	10UH NLC322522	
LCV6	HLC100J00A	L CHIP COIL	10UH NLC322522	
LCV7	HFF400B00A	F CHIP FERRITE BEAD	40 OHM GBK 1608	
LCV8	HLC339K02A	L CHIP COIL	3.3UH MLF 2012	
LCV9	HLC339K02A	L CHIP COIL	3.3UH MLF 2012	
PW3	48590001S0	CONN WAFER	12505WR-06A00	
PW30	4859293820	CONN WAFER	GT121-31P-TD-A 31P ST	
PW6	49590009S0	CONN WAFER	12505WR-05A00	
PW7	48590001S0	CONN WAFER	12505WR-06A00	
QC110	T2SA1037KB	TR CHIP	2SA1037AKT146-R	
QC111	T2SA1037KB	TR CHIP	2SA1037AKT146-R	
QC112	T2SA1037KB	TR CHIP	2SA1037AKT146-R	
QC113	T2SA1037KB	TR CHIP	2SA1037AKT146-R	
QC114	T2SA1037KB	TR CHIP	2SA1037AKT146-R	
QC116	T2SA1037KB	TR CHIP	2SA1037AKT146-R	
QCL1	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	
QCL2	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	
QCL3	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	
QCP1	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	
QCS1	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	
QCU17	T2N7002—	FET CHIP	2N7002 SOT-23 60V 115MA	
QCU18	T2N7002—	FET CHIP	2N7002 SOT-23 60V 115MA	
QCV3	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	
QCW1	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	
QCW2	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	
QCW3	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	
RAA1	HRTS8E470J	R CHIP ARRAY	1/16 8P 47 OHM J 3216	
RAA2	HRTS8E470J	R CHIP ARRAY	1/16 8P 47 OHM J 3216	
RAA3	HRTS8E470J	R CHIP ARRAY	1/16 8P 47 OHM J 3216	
RAA4	HRTS8E470J	R CHIP ARRAY	1/16 8P 47 OHM J 3216	
RAA5	HRTS8E470J	R CHIP ARRAY	1/16 8P 47 OHM J 3216	
RAA6	HRTS8E470J	R CHIP ARRAY	1/16 8P 47 OHM J 3216	
RAD1	HRTS8E470J	R CHIP ARRAY	1/16 8P 47 OHM J 3216	
RAD2	HRTS8E470J	R CHIP ARRAY	1/16 8P 47 OHM J 3216	
RAD3	HRTS8E470J	R CHIP ARRAY	1/16 8P 47 OHM J 3216	
RAD4	HRTS8E470J	R CHIP ARRAY	1/16 8P 47 OHM J 3216	
RAD5	HRTS8E470J	R CHIP ARRAY	1/16 8P 47 OHM J 3216	
RAD6	HRTS8E470J	R CHIP ARRAY	1/16 8P 47 OHM J 3216	
RAJ1	HRTS8E470J	R CHIP ARRAY	1/16 8P 47 OHM J 3216	
RAJ10	HRTS8E470J	R CHIP ARRAY	1/16 8P 47 OHM J 3216	
RAJ11	HRTS8E330J	R CHIP ARRAY	1/16 8P 33 OHM J 3216	
RAJ12	HRTS8E330J	R CHIP ARRAY	1/16 8P 33 OHM J 3216	
RAJ13	HRTS8E330J	R CHIP ARRAY	1/16 8P 33 OHM J 3216	

Service part list

LOC	PART CODE	PART NAME	DESCRIPTION	REMARK
RAJ14	HRTS8E330J	R CHIP ARRAY	1/16 8P 33 OHM J 3216	
RAJ15	HRTS8E330J	R CHIP ARRAY	1/16 8P 33 OHM J 3216	
RAJ16	HRTS8E330J	R CHIP ARRAY	1/16 8P 33 OHM J 3216	
RAJ17	HRTS8E470J	R CHIP ARRAY	1/16 8P 47 OHM J 3216	
RAJ18	HRTS8E470J	R CHIP ARRAY	1/16 8P 47 OHM J 3216	
RAJ19	HRTS8E103J	R CHIP ARRAY	1/16 8P 10K OHM J 3216	
RAJ2	HRTS8E470J	R CHIP ARRAY	1/16 8P 47 OHM J 3216	
RAJ20	HRTS8E103J	R CHIP ARRAY	1/16 8P 10K OHM J 3216	
RAJ21	HRTS8E103J	R CHIP ARRAY	1/16 8P 10K OHM J 3216	
RAJ22	HRTS8E103J	R CHIP ARRAY	1/16 8P 10K OHM J 3216	
RAJ3	HRTS8E470J	R CHIP ARRAY	1/16 8P 47 OHM J 3216	
RAJ4	HRTS8E470J	R CHIP ARRAY	1/16 8P 47 OHM J 3216	
RAJ5	HRTS8E470J	R CHIP ARRAY	1/16 8P 47 OHM J 3216	
RAJ6	HRTS8E470J	R CHIP ARRAY	1/16 8P 47 OHM J 3216	
RAJ7	HRTS8E470J	R CHIP ARRAY	1/16 8P 47 OHM J 3216	
RAJ8	HRTS8E470J	R CHIP ARRAY	1/16 8P 47 OHM J 3216	
RAJ9	HRTS8E470J	R CHIP ARRAY	1/16 8P 47 OHM J 3216	
RAU1	HRTS8E472J	R CHIP ARRAY	1/16 8P 4.7K OHM 3216	
RAU2	HRTS8E472J	R CHIP ARRAY	1/16 8P 4.7K OHM 3216	
RAU3	HRTS8E330J	R CHIP ARRAY	1/16 8P 33 OHM J 3216	
RAU4	HRTS8E330J	R CHIP ARRAY	1/16 8P 33 OHM J 3216	
RAV1	HRTS8E330J	R CHIP ARRAY	1/16 8P 33 OHM J 3216	
RAV2	HRTS8E330J	R CHIP ARRAY	1/16 8P 33 OHM J 3216	
RCA1	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RCA10	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
RCA11	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RCA12	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RCA13	HRFT471JBA	R CHIP	1/10 47 OHM J 1608	
RCA14	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RCA15	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
RCA2	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RCA8	HRFT470JBA	R CHIP	1/10 47 OHM J 1608	
RCA9	HRFT470JBA	R CHIP	1/10 47 OHM J 1608	
RCD1	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
RCD10	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
RCD11	HRFT470JBA	R CHIP	1/10 47 OHM J 1608	
RCD15	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
RCD16	HRFT470JBA	R CHIP	1/10 47 OHM J 1608	
RCD18	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
RCD4	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
RCD5	HRFT470JBA	R CHIP	1/10 47 OHM J 1608	
RCD6	HRFT470JBA	R CHIP	1/10 47 OHM J 1608	
RCD7	HRFT470JBA	R CHIP	1/10 47 OHM J 1608	
RCD8	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
RCI13	HRFT270JBA	R CHIP	1/10 27 OHM J 1608	
RCI14	HRFT270JBA	R CHIP	1/10 27 OHM J 1608	
RCI16	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
RCI19	HRFT270JBA	R CHIP	1/10 27 OHM J 1608	
RCI20	HRFT270JBA	R CHIP	1/10 27 OHM J 1608	
RCI27	HRFT270JBA	R CHIP	1/10 27 OHM J 1608	
RCI28	HRFT470JBA	R CHIP	1/10 47 OHM J 1608	
RCI29	HRFT470JBA	R CHIP	1/10 47 OHM J 1608	
RCI3	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
RCI30	HRFT270JBA	R CHIP	1/10 27 OHM J 1608	
RCI31	HRFT270JBA	R CHIP	1/10 27 OHM J 1608	
RCI32	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
RCI33	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
RCI4	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
RCI40	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
RCI45	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
RCI46	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
RCI7	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608	
RCI8	HRFT102JBA	R CHIP	1/10 1K OHM J 1608	
RCI9	HRFT102JBA	R CHIP	1/10 1K OHM J 1608	
RCI98	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
RCJ1	HRFT470JBA	R CHIP	1/10 47 OHM J 1608	
RCJ2	HRFT470JBA	R CHIP	1/10 47 OHM J 1608	
RCJ3	HRFT470JBA	R CHIP	1/10 47 OHM J 1608	

LOC	PART CODE	PART NAME	DESCRIPTION	REMARK
RCL10	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
RCL11	HRFT201JBA	R CHIP	1/10 200 OHM J 1608	
RCL12	HRFT201JBA	R CHIP	1/10 200 OHM J 1608	
RCL13	HRFT201JBA	R CHIP	1/10 200 OHM J 1608	
RCL14	HRFT201JBA	R CHIP	1/10 200 OHM J 1608	
RCL15	HRFT201JBA	R CHIP	1/10 200 OHM J 1608	
RCL18	HRFT301JBA	R CHIP	1/10 300 OHM J 1608	
RCL19	HRFT301JBA	R CHIP	1/10 300 OHM J 1608	
RCL20	HRFT201JBA	R CHIP	1/10 200 OHM J 1608	
RCL21	HRFT201JBA	R CHIP	1/10 200 OHM J 1608	
RCL22	HRFT201JBA	R CHIP	1/10 200 OHM J 1608	
RCL28	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
RCL8	HRFT510JBA	R CHIP	1/10 51 OHM J 1608	
RCS2	HRFT201JBA	R CHIP	1/10 200 OHM J 1608	
RCS25	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
RCS31	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
RCS33	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
RCS35	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
RCS6	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
RCS60	HRFT220JBA	R CHIP	1/10 22 OHM J 1608	
RCS61	HRFT220JBA	R CHIP	1/10 22 OHM J 1608	
RCS62	HRFT220JBA	R CHIP	1/10 22 OHM J 1608	
RCS63	HRFT220JBA	R CHIP	1/10 22 OHM J 1608	
RCS64	HRFT330JBA	R CHIP	1/10 33 OHM J 1608	
RCU11	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RCU12	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
RCU13	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RCU14	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RCU15	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RCU16	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
RCU17	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
RCU18	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
RCU19	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
RCU20	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RCU21	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
RCU22	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
RCU25	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RCU26	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RCU27	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RCU28	HRFT102JBA	R CHIP	1/10 1K OHM J 1608	
RCU36	HRFT561JBA	R CHIP	1/10 560 OHM J 1608	
RCU41	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RCU42	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RCU43	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
RCU46	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RCU48	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RCU59	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RCU60	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RCU67	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RCU70	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
RCU84	HRFT203JBA	R CHIP	1/10 20K OHM J 1608	
RCU86	HRFT203JBA	R CHIP	1/10 20K OHM J 1608	
RCU9	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RCU90	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RCV10	HRFT220JBA	R CHIP	1/10 22 OHM J 1608	
RCV11	HRFT220JBA	R CHIP	1/10 22 OHM J 1608	
RCV2	HRFT392JBA	R CHIP	1/10 3.9K OHM J 1608	
RCV21	HRFT331JBA	R CHIP	1/10 330 OHM J 1608	
RCV22	HRFT331JBA	R CHIP	1/10 330 OHM J 1608	
RCV23	HRFT331JBA	R CHIP	1/10 330 OHM J 1608	
RCV24	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
RCV26	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
RCV28	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
RCV30	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
RCV33	HRFT470JBA	R CHIP	1/10 47 OHM J 1608	
RCV34	HRFT470JBA	R CHIP	1/10 47 OHM J 1608	
RCV35	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RCV36	HRFT470JBA	R CHIP	1/10 47 OHM J 1608	

Service part list

LOC	PART CODE	PART NAME	DESCRIPTION	REMARK
RCV7	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
RCV9	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
RCW21	HRFT122JBA	R CHIP	1/10 1.2K OHM J 1608	
RCW5	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RCW6	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
XJ1	5Z80R000TF	CRYSTAL OSCILLATOR	80.000MHZ 5X7 SMD 3.3V	
ZZ300	PTSBMSG098	PCB SUB MANUAL AS	DLP-2612APSB	
CE624	CEYF1E102V	C ELECTRO	25V RSS 1000MF (13X20)	
CE625	CEYF1E102V	C ELECTRO	25V RSS 1000MF (13X20)	
CE626	CEYF1E102V	C ELECTRO	25V RSS 1000MF (13X20)	
CE627	CEYF1E102V	C ELECTRO	25V RSS 1000MF (13X20)	
CM621	CMXL1J474J	C MYLAR	63V MEU 0.47MF J	
CM632	CMXL1J474J	C MYLAR	63V MEU 0.47MF J	
FC4	97P8600400	CORE FERRITE	BNF-1528F	
IC290	1TS0P34838	IC PREAMP	TSOP34838SJ	
IC603	1TDA7480—	IC AMP	TDA7480	
IC604	1TDA7480—	IC AMP	TDA7480	
IC606	1K1A7042AP	IC RESET	KIA7042AP	
JP201	97P6318110	JACK SCART	DSAM-9871	
JP202	97P6318110	JACK SCART	DSAM-9871	
JP203	4859105340	JACK S-VHS	DSW-10 (STRAIGHT)	
JP204	4859112850	JACK PIN	DPSS-0173 3PIN STR	
JP205	97P6316100	JACK HEAD PHONE	DHSE-9959	
JP206	4859116450	JACK PIN	DPAE-0487	
L2	58C0000116	COIL BEAD	HC-3550R	
L3	58C0000116	COIL BEAD	HC-3550R	
L4	58C0000116	COIL BEAD	HC-3550R	
L5	58C0000116	COIL BEAD	HC-3550R	
L601	5CPX560J—	COIL PEAKING	56UH J (RADIAL)	
LED1	DSPR39MWW-	LED	SPR-39MWW (DUAL)	
LED2	DSLR34VR3-	LED	SLR-342VR (RED)	
M211D	7178301011	SCREW TAPPTITE	TT2 WAS 3X10 MFZN	
M231	4852330911	PANEL AV	HIPS GY (CORE A)	
M231A	7178301011	SCREW TAPPTITE	TT2 WAS 3X10 MFZN	
M232	4852331001	PANEL CTRL	HIPS GY (CORE A)	
M321	4853294100	BRKT POWER SW	SECC 1T	
M321A	7172401212	SCREW TAPPTITE	TT2 TRS 4X12 MFZNBK	
M351	4853567911	HOLDER SENSOR	ABS GY (COATING)	
M491	4854962212	BUTTON CH	ABS GY	
M551	4855554701	DECO SENSOR	PC GY	
P204	4859295320	CONN WAFER	4604-40MV2B-1 PLUG 40P ST	
P601	4859284520	CONN WAFER	SMW250-04	
PC20	4850705S19	CONNECTOR	YMH025-05R+YMH025-05R+ULW=300	
PC201	4850707S16	CONNECTOR	12505HS-07+12505HS-07+ULW=300	
PC202	4850710S17	CONNECTOR	12505HS-10+12505HS-10+ULW=400	
PC21	4850704S61	CONNECTOR	YMH025-04R+YMH025-04R+ULW=250	
PC6	4850705N35	CONNECTOR	12505HS-05+12505HS-05+ULW+CORE=800	
PC7	4850706N26	CONNECTOR	12505HS-06+12505HS-06+ULW+CORE=550	
PC802	4850702N22	CONNECTOR	YDH236-02+PH-01-T3T=400	
PW20	4959205020	CONN WAFER	YMW025-05R	
PW21	4959204020	CONN WAFER	YMW025-04R	
PW602	4859284420	CONN WAFER	SMW250-03	
R801	RN02B120JS	R METAL FILM	2W 12 OHM J SMALL	
R802	RN02B471JS	R METAL FILM	2W 470 OHM J SMALL	
R803	RN02B471JS	R METAL FILM	2W 470 OHM J SMALL	
SW1	5S40000003	SW POWER PUSH	SS-160-7-G	
SW201	5S50101Z90	SW TACT	THVV502GDA	
SW202	5S50101Z90	SW TACT	THVV502GDA	
SW203	5S50101Z90	SW TACT	THVV502GDA	
SW204	5S50101Z90	SW TACT	THVV502GDA	
SW205	5S50101Z90	SW TACT	THVV502GDA	
SW206	5S50101Z90	SW TACT	THVV502GDA	
SW207	5S50101Z90	SW TACT	THVV502GDA	
TU1	4859728530	TUNER VARACTOR	FQ1216ME/H-5 (HORI/DIN)	
X801	5XE18R432E	CRYSTAL QUARTZ	HC-49/U 18.43200MHZ 30PPM	
ZZ200	PTSBJ2G098	PCB SUB CHIP B AS	DLP-2612APSB	
CC101	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CC109	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	

LOC	PART CODE	PART NAME	DESCRIPTION	REMARK
CC201	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608	
CC202	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608	
CC203	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	
CC204	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	
CC205	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CC206	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CC207	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CC208	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CC229	HQCK331JBA	C CHIP CERA	50V CH 330PF J 1608	
CC230	HQCK331JBA	C CHIP CERA	50V CH 330PF J 1608	
CC231	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608	
CC232	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608	
CC233	HQCK331JBA	C CHIP CERA	50V CH 330PF J 1608	
CC234	HCBK102KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CC235	HQCK331JBA	C CHIP CERA	50V CH 330PF J 1608	
CC236	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608	
CC237	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CC291	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CC292	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CC293	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CC294	HCFK105ZBA	C CHIP CERA	50V Y5V 1MF Z 1608	
CC295	HCFK105ZBA	C CHIP CERA	50V Y5V 1MF Z 1608	
CC501	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CC601	HCBK682KBA	C CHIP CERA	50V X7R 6800PF K 1608	
CC602	HCBK682KBA	C CHIP CERA	50V X7R 6800PF K 1608	
CC603	HCBK682KBA	C CHIP CERA	50V X7R 6800PF K 1608	
CC604	HCBK682KBA	C CHIP CERA	50V X7R 6800PF K 1608	
CC605	HRFT334JBA	R CHIP	1/10 330K OHM J 1608	
CC607	HQCK471JBA	C CHIP CERA	50V CH 470PF J 1608	
CC608	HCBK152KBA	C CHIP CERA	50V X7R 1500PF K 1608	
CC609	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CC610	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CC611	HQCK471JBA	C CHIP CERA	50V CH 470PF J 1608	
CC612	HCBK152KBA	C CHIP CERA	50V X7R 1500PF K 1608	
CC613	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CC614	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CC615	HQCK509CBA	C CHIP CERA	50V CH 5PF C 1608	
CC616	HQCK509CBA	C CHIP CERA	50V CH 5PF C 1608	
CC617	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CC618	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CC619	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CC620	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CC622	HQCK561JBA	C CHIP CERA	50V CH 560PF J 1608	
CC623	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CC624	HCBK472KBA	C CHIP CERA	50V X7R 4700PF K 1608	
CC625	HQCK271JBA	C CHIP CERA	50V CH 270PF J 1608	
CC626	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CC627	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CC628	HCFK334ZBA	C CHIP CERA	16V Y5V 0.33MF Z 1608	
CC629	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608	
CC630	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CC631	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CC633	HQCK561JBA	C CHIP CERA	50V CH 560PF J 1608	
CC634	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CC635	HCBK472KBA	C CHIP CERA	50V X7R 4700PF K 1608	
CC636	HQCK271JBA	C CHIP CERA	50V CH 270PF J 1608	
CC637	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CC638	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CC639	HCFK334ZBA	C CHIP CERA	16V Y5V 0.33MF Z 1608	
CC640	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608	
CC641	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CC642	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CC643	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CC644	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CC645	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CC646	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CC647	HRFT104JBA	R CHIP	1/10 100K OHM J 1608	
CC648	HRFT104JBA	R CHIP	1/10 100K OHM J 1608	

Service part list

LOC	PART CODE	PART NAME	DESCRIPTION	REMARK
CC649	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	
CC651	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
CC801	HCBK104KBA	C CHIP CERA	50V X7R 0.1MF K 1608	
LC205	HFF400B00A	F CHIP FERRITE BEAD	40 OHM GBK 1608	
LC206	HFF400B00A	F CHIP FERRITE BEAD	40 OHM GBK 1608	
LC207	HFF400B00A	F CHIP FERRITE BEAD	40 OHM GBK 1608	
LC214	HFF400B00A	F CHIP FERRITE BEAD	40 OHM GBK 1608	
LC219	HFF400B00A	F CHIP FERRITE BEAD	40 OHM GBK 1608	
RC10	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RC101	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
RC102	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
RC103	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
RC109	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
RC11	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
RC12	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
RC13	HRFT102JBA	R CHIP	1/10 1K OHM J 1608	
RC14	HRFT123JBA	R CHIP	1/10 12K OHM J 1608	
RC15	HRFT331JBA	R CHIP	1/10 330 OHM J 1608	
RC16	HRFT102JBA	R CHIP	1/10 1K OHM J 1608	
RC17	HRFT331JBA	R CHIP	1/10 330 OHM J 1608	
RC18	HRFT102JBA	R CHIP	1/10 1K OHM J 1608	
RC19	HRFT102JBA	R CHIP	1/10 1K OHM J 1608	
RC2	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
RC20	HRFT470JBA	R CHIP	1/10 47 OHM J 1608	
RC200	HRFT470JBA	R CHIP	1/10 47 OHM J 1608	
RC201	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
RC202	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
RC203	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
RC204	HRFT224JBA	R CHIP	1/10 220K OHM J 1608	
RC205	HRFT224JBA	R CHIP	1/10 220K OHM J 1608	
RC206	HRFT224JBA	R CHIP	1/10 220K OHM J 1608	
RC207	HRFT224JBA	R CHIP	1/10 220K OHM J 1608	
RC208	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RC209	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RC21	HRFT470JBA	R CHIP	1/10 47 OHM J 1608	
RC210	HRFT333JBA	R CHIP	1/10 33K OHM J 1608	
RC211	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
RC212	HRFT223JBA	R CHIP	1/10 22K OHM J 1608	
RC215	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
RC216	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
RC217	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
RC218	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
RC219	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
RC22	HRFT102JBA	R CHIP	1/10 1K OHM J 1608	
RC220	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RC221	HRFT224JBA	R CHIP	1/10 220K OHM J 1608	
RC222	HRFT224JBA	R CHIP	1/10 220K OHM J 1608	
RC223	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RC224	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RC225	HRFT333JBA	R CHIP	1/10 33K OHM J 1608	
RC226	HRFT223JBA	R CHIP	1/10 22K OHM J 1608	
RC227	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
RC228	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
RC23	HRFT123JBA	R CHIP	1/10 12K OHM J 1608	
RC231	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
RC232	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
RC233	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RC234	HRFT123JBA	R CHIP	1/10 12K OHM J 1608	
RC235	HRFT220JBA	R CHIP	1/10 22 OHM J 1608	
RC236	HRFT223JBA	R CHIP	1/10 22K OHM J 1608	
RC237	HRFT102JBA	R CHIP	1/10 1K OHM J 1608	
RC238	HRFT331JBA	R CHIP	1/10 330 OHM J 1608	
RC239	HRFT752JBA	R CHIP	1/10 7.5K OHM J 1608	
RC24	HRFT123JBA	R CHIP	1/10 12K OHM J 1608	
RC240	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RC241	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RC242	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RC243	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	

LOC	PART CODE	PART NAME	DESCRIPTION	REMARK
RC244	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RC246	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RC247	HRFT224JBA	R CHIP	1/10 220K OHM J 1608	
RC248	HRFT473JBA	R CHIP	1/10 47K OHM J 1608	
RC249	HRFT224JBA	R CHIP	1/10 220K OHM J 1608	
RC25	HRFT102JBA	R CHIP	1/10 1K OHM J 1608	
RC250	HRFT224JBA	R CHIP	1/10 220K OHM J 1608	
RC255	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RC256	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RC257	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RC26	HRFT220JBA	R CHIP	1/10 22 OHM J 1608	
RC263	HRFT223JBA	R CHIP	1/10 22K OHM J 1608	
RC266	HRFT750JBA	R CHIP	1/10 75 OHM J 1608	
RC268	HRFT220JBA	R CHIP	1/10 22 OHM J 1608	
RC269	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RC27	HRFT301JBA	R CHIP	1/10 300 OHM J 1608	
RC270	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RC271	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
RC272	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
RC28	HRFT331JBA	R CHIP	1/10 330 OHM J 1608	
RC292	HRFT272JBA	R CHIP	1/10 2.7K OHM J 1608	
RC293	HRFT562JBA	R CHIP	1/10 5.6K OHM J 1608	
RC294	HRFT391JBA	R CHIP	1/10 390 OHM J 1608	
RC295	HRFT122JBA	R CHIP	1/10 1.2K OHM J 1608	
RC296	HRFT122JBA	R CHIP	1/10 1.2K OHM J 1608	
RC297	HRFT272JBA	R CHIP	1/10 2.7K OHM J 1608	
RC298	HRFT562JBA	R CHIP	1/10 5.6K OHM J 1608	
RC3	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
RC35	HRFT331JBA	R CHIP	1/10 330 OHM J 1608	
RC36	HRFT470JBA	R CHIP	1/10 47 OHM J 1608	
RC37	HRFT102JBA	R CHIP	1/10 1K OHM J 1608	
RC38	HRFT470JBA	R CHIP	1/10 47 OHM J 1608	
RC39	HRFT331JBA	R CHIP	1/10 330 OHM J 1608	
RC4	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
RC40	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
RC41	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
RC42	HRFT331JBA	R CHIP	1/10 330 OHM J 1608	
RC43	HRFT102JBA	R CHIP	1/10 1K OHM J 1608	
RC44	HRFT470JBA	R CHIP	1/10 47 OHM J 1608	
RC46	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RC601	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RC602	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RC603	HRFT102JBA	R CHIP	1/10 1K OHM J 1608	
RC605	HRFT102JBA	R CHIP	1/10 1K OHM J 1608	
RC606	HRFT202JBA	R CHIP	1/10 2K OHM J 1608	
RC607	HRFT102JBA	R CHIP	1/10 1K OHM J 1608	
RC608	HRFT202JBA	R CHIP	1/10 2K OHM J 1608	
RC609	HRFT102JBA	R CHIP	1/10 1K OHM J 1608	
RC610	HRFT202JBA	R CHIP	1/10 2K OHM J 1608	
RC611	HRFT102JBA	R CHIP	1/10 1K OHM J 1608	
RC612	HRFT202JBA	R CHIP	1/10 2K OHM J 1608	
RC613	HRF4430JEA	R CHIP	1/4 43 OHM J 3216	
RC614	HRFT122JBA	R CHIP	1/10 1.2K OHM J 1608	
RC615	HRFT122JBA	R CHIP	1/10 1.2K OHM J 1608	
RC616	HRFT122JBA	R CHIP	1/10 1.2K OHM J 1608	
RC617	HRFT122JBA	R CHIP	1/10 1.2K OHM J 1608	
RC618	HRFT122JBA	R CHIP	1/10 1.2K OHM J 1608	
RC619	HRFT122JBA	R CHIP	1/10 1.2K OHM J 1608	
RC620	HRFT122JBA	R CHIP	1/10 1.2K OHM J 1608	
RC621	HRFT122JBA	R CHIP	1/10 1.2K OHM J 1608	
RC622	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RC623	HRFT151JBA	R CHIP	1/10 150 OHM J 1608	
RC624	HRFT123JBA	R CHIP	1/10 12K OHM J 1608	
RC625	HRFT151JBA	R CHIP	1/10 150 OHM J 1608	
RC626	HRFT123JBA	R CHIP	1/10 12K OHM J 1608	
RC627	HRFT303JBA	R CHIP	1/10 30K OHM J 1608	
RC628	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
RC629	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608	

Service part list

LOC	PART CODE	PART NAME	DESCRIPTION	REMARK
RC630	HRFT102JBA	R CHIP	1/10 1K OHM J 1608	
RC631	HRFT123JBA	R CHIP	1/10 12K OHM J 1608	
RC632	HRFT751JBA	R CHIP	1/10 750 OHM J 1608	
RC635	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RC636	HRFT103JBA	R CHIP	1/10 10K OHM J 1608	
RC637	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
RC638	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
RC639	HRFT102JBA	R CHIP	1/10 1K OHM J 1608	
RC640	HRFT221JBA	R CHIP	1/10 220 OHM J 1608	
RC645	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
RC646	HRFT470JBA	R CHIP	1/10 47 OHM J 1608	
RC647	HRFT470JBA	R CHIP	1/10 47 OHM J 1608	
RC648	HRFT512JBA	R CHIP	1/10 5.1K OHM J 1608	
RC649	HRFT303JBA	R CHIP	1/10 30K OHM J 1608	
RC650	HRFT221JBA	R CHIP	1/10 220 OHM J 1608	
RC651	HRFT332JBA	R CHIP	1/10 3.3K OHM J 1608	
RC652	HRFT272JBA	R CHIP	1/10 2.7K OHM J 1608	
RC653	HRFT512JBA	R CHIP	1/10 5.1K OHM J 1608	
RC654	HRFT303JBA	R CHIP	1/10 30K OHM J 1608	
RC655	HRFT221JBA	R CHIP	1/10 220 OHM J 1608	
RC656	HRFT472JBA	R CHIP	1/10 4.7K OHM J 1608	
ZZ200	PTSBJ0G098	PCB SUB RHU AS	DLP-2612APSB	
ZZ200	PTSBJBG098	PCB SUB M-10 AS	DLP-2612APSB	
ZZ200	PTSBJRG098	PCB SUB RADIAL AS	DLP-2612APSB	
ZZ200	PTSBJAG098	PCB SUB AXIAL AS	DLP-2612APSB	
A002	4859805117	PCB SUB	234X193 K2V	
ZZ200	PTSBJ1G098	PCB SUB CHIP A AS	DLP-2612APSB	
CE104	HCEEF101MC	C CHIP ELECTRO	MV 16V 100MF 6.3DX5.7H	
CE105	HCEEF101MC	C CHIP ELECTRO	MV 16V 100MF 6.3DX5.7H	
CE106	HCEEF101MC	C CHIP ELECTRO	MV 16V 100MF 6.3DX5.7H	
CE107	HCEEF101MC	C CHIP ELECTRO	MV 16V 100MF 6.3DX5.7H	
CE16	HCELH100MC	C CHIP ELECTRO	25V 10MF CM 4052	
CE201	HCEJK109MC	C CHIP ELECTRO	MV 50V 1MF 4.0DX5.3H	
CE202	HCEJK109MC	C CHIP ELECTRO	MV 50V 1MF 4.0DX5.3H	
CE203	HCELH100MC	C CHIP ELECTRO	25V 10MF CM 4052	
CE204	HCELH100MC	C CHIP ELECTRO	25V 10MF CM 4052	
CE205	HCEJK109MC	C CHIP ELECTRO	MV 50V 1MF 4.0DX5.3H	
CE206	HCEJK109MC	C CHIP ELECTRO	MV 50V 1MF 4.0DX5.3H	
CE207	HCELH100MC	C CHIP ELECTRO	25V 10MF CM 4052	
CE208	HCEJK109MC	C CHIP ELECTRO	MV 50V 1MF 4.0DX5.3H	
CE209	HCEJK109MC	C CHIP ELECTRO	MV 50V 1MF 4.0DX5.3H	
CE210	HCEEF101MC	C CHIP ELECTRO	MV 16V 100MF 6.3DX5.7H	
CE211	HCELH100MC	C CHIP ELECTRO	25V 10MF CM 4052	
CE212	HCEEF101MC	C CHIP ELECTRO	MV 16V 100MF 6.3DX5.7H	
CE214	HCELH100MC	C CHIP ELECTRO	25V 10MF CM 4052	
CE215	HCEJK109MC	C CHIP ELECTRO	MV 50V 1MF 4.0DX5.3H	
CE216	HCELH100MC	C CHIP ELECTRO	25V 10MF CM 4052	
CE217	HCEJK109MC	C CHIP ELECTRO	MV 50V 1MF 4.0DX5.3H	
CE218	HCELH100MC	C CHIP ELECTRO	25V 10MF CM 4052	
CE219	HCELH100MC	C CHIP ELECTRO	25V 10MF CM 4052	
CE220	HCELH100MC	C CHIP ELECTRO	25V 10MF CM 4052	
CE221	HCELH100MC	C CHIP ELECTRO	25V 10MF CM 4052	
CE501	HCELH100MC	C CHIP ELECTRO	25V 10MF CM 4052	
CE601	HCEJF470MC	C CHIP ELECTRO	16V 47MF CS 6352	
CE602	HCELK479MC	C CHIP ELECTRO	50V 4.7MF CM 4052	
CE603	HCELK479MC	C CHIP ELECTRO	50V 4.7MF CM 4052	
CE604	HCELK479MC	C CHIP ELECTRO	50V 4.7MF CM 4052	
CE605	HCELK479MC	C CHIP ELECTRO	50V 4.7MF CM 4052	
CE606	HCELK479MC	C CHIP ELECTRO	50V 4.7MF CM 4052	
CE607	HCELK479MC	C CHIP ELECTRO	50V 4.7MF CM 4052	
CE608	HCELK479MC	C CHIP ELECTRO	50V 4.7MF CM 4052	
CE609	HCELK479MC	C CHIP ELECTRO	50V 4.7MF CM 4052	
CE610	HCELH100MC	C CHIP ELECTRO	25V 10MF CM 4052	
CE611	HCEJF470MC	C CHIP ELECTRO	16V 47MF CS 6352	
CE612	HCELK479MC	C CHIP ELECTRO	50V 4.7MF CM 4052	
CE613	HCEJK109MC	C CHIP ELECTRO	MV 50V 1MF 4.0DX5.3H	
CE614	HCEJK109MC	C CHIP ELECTRO	MV 50V 1MF 4.0DX5.3H	
CE615	HCEJK109MC	C CHIP ELECTRO	MV 50V 1MF 4.0DX5.3H	

LOC	PART CODE	PART NAME	DESCRIPTION	REMARK
CE616	HCEJK109MC	C CHIP ELECTRO	MV 50V 1MF 4.0DX5.3H	
CE617	HCEJK109MC	C CHIP ELECTRO	MV 50V 1MF 4.0DX5.3H	
CE618	HCEJK109MC	C CHIP ELECTRO	MV 50V 1MF 4.0DX5.3H	
CE619	HCEJK109MC	C CHIP ELECTRO	MV 50V 1MF 4.0DX5.3H	
CE620	HCEJK109MC	C CHIP ELECTRO	MV 50V 1MF 4.0DX5.3H	
CE621	HCELH100MC	C CHIP ELECTRO	25V 10MF CM 4052	
CE622	HCEJF470MC	C CHIP ELECTRO	16V 47MF CS 6352	
CE623	HCEJF470MC	C CHIP ELECTRO	16V 47MF CS 6352	
CE628	HCEJF470MC	C CHIP ELECTRO	16V 47MF CS 6352	
CE629	HCEJF470MC	C CHIP ELECTRO	16V 47MF CS 6352	
CE630	HCEJF470MC	C CHIP ELECTRO	16V 47MF CS 6352	
CE631	HCEJF470MC	C CHIP ELECTRO	16V 47MF CS 6352	
CE632	HCEJK109MC	C CHIP ELECTRO	MV 50V 1MF 4.0DX5.3H	
CE633	HCELH220MD	C CHIP ELECTRO	16V 22MF CM 4052	
CE634	HCELH100MC	C CHIP ELECTRO	25V 10MF CM 4052	
CE636	HCEJF470MC	C CHIP ELECTRO	16V 47MF CS 6352	
CE638	HCEJF470MC	C CHIP ELECTRO	16V 47MF CS 6352	
CE639	HCEJF470MC	C CHIP ELECTRO	16V 47MF CS 6352	
CE640	HCELH221ME	C CHIP ELECTRO	25V 220MF CM 8010	
CE641	HCELH221ME	C CHIP ELECTRO	25V 220MF CM 8010	
CE801	HCEJ470MC	C CHIP ELECTRO	35V 47MF CS 8063	
CE802	HCELH221ME	C CHIP ELECTRO	25V 220MF CM 8010	
DC10	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)	
DC11	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)	
DC12	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)	
DC13	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)	
DC14	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)	
DC15	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)	
DC16	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)	
DC17	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)	
DC18	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)	
DC20	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)	
DC200	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)	
DC201	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)	
DC202	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)	
DC203	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)	
DC204	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)	
DC205	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)	
DC206	DBAV99ML-B	DIODE CHIP	BAV99ML	
DC207	DBAV99ML-B	DIODE CHIP	BAV99ML	
DC208	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)	
DC218	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)	
DC219	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)	
DC220	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)	
DC221	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)	
DC222	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)	
DC223	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)	
DC224	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)	
DC225	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)	
DC226	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)	
DC227	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)	
DC228	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)	
DC601	DUMZ8R2T-B	DIODE CHIP ZENER	UMZ-8.2T (TAPING)	
DC602	D202W5R6VA	DIODE CHIP ZENER	Z02W5.6V	
IC201	1CXA1855QQ	IC CHIP SWITCH	CXA1855Q	
IC601	1MSP3410-Q	IC CHIP SOUND	MSP3410G-8T(QA-B8-V3)	
IC602	1KA4558D-B	IC CHIP	KA4558D	
IC607	1PCF8591-D	IC CHIP	PCF8591	
IC801	1L78M09ABD	IC CHIP REGULATOR	L78M09ABDT	
LC1	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
LC101	HLC100J00A	L CHIP COIL	10UH NLC322522	
LC102	HLC100J00A	L CHIP COIL	10UH NLC322522	
LC14	HFF301B00A	F CHIP FERRITE BEAD	300 OHM SBK 1608	
LC15	HFF301B00A	F CHIP FERRITE BEAD	300 OHM SBK 1608	
LC16	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
LC17	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
LC18	HFF301B00A	F CHIP FERRITE BEAD	300 OHM SBK 1608	
LC19	HFF301B00A	F CHIP FERRITE BEAD	300 OHM SBK 1608	

Service part list

LOC	PART CODE	PART NAME	DESCRIPTION	REMARK
LC2	HRFT000-BA	R CHIP	1/10 0 OHM 1608	
LC200	HLC100J00A	L CHIP COIL	10UH NLC322522	
LC201	HFEACF470B	F CHIP EMI	ACF321825 47P	
LC202	HFEACF470B	F CHIP EMI	ACF321825 47P	
LC203	HFEACF470B	F CHIP EMI	ACF321825 47P	
LC204	HFEACF470B	F CHIP EMI	ACF321825 47P	
LC208	HLC569K00A	L CHIP COIL	5.6UH MLF2012E	
LC209	HLC569K00A	L CHIP COIL	5.6UH MLF2012E	
LC210	HFEACF470B	F CHIP EMI	ACF321825 47P	
LC211	HFEACF470B	F CHIP EMI	ACF321825 47P	
LC212	HFEACF470B	F CHIP EMI	ACF321825 47P	
LC213	HFEACF470B	F CHIP EMI	ACF321825 47P	
LC215	HFEACF470B	F CHIP EMI	ACF321825 47P	
LC216	HFEACF470B	F CHIP EMI	ACF321825 47P	
LC217	HFEACF470B	F CHIP EMI	ACF321825 47P	
LC218	HFEACF470B	F CHIP EMI	ACF321825 47P	
LC220	HLC100J00A	L CHIP COIL	10UH NLC322522	
LC238	HFEACF470B	F CHIP EMI	ACF321825 47P	
LC239	HFEACF470B	F CHIP EMI	ACF321825 47P	
LC240	HFEACF470B	F CHIP EMI	ACF321825 47P	
LC241	HFEACF470B	F CHIP EMI	ACF321825 47P	
LC599	HLC680K00E	L CHIP COIL	68UH K 120120	
LC6	HLC100J00A	L CHIP COIL	10UH NLC322522	
LC600	HLC680K00E	L CHIP COIL	68UH K 120120	
LC602	HLC109K00C	L CHIP COIL	1.0UH K NLC 3225	
LC603	HLC109K00C	L CHIP COIL	1.0UH K NLC 3225	
LC605	HLC109K00C	L CHIP COIL	1.0UH K NLC 3225	
LC606	HLC109K00C	L CHIP COIL	1.0UH K NLC 3225	
LC607	HLC109K00C	L CHIP COIL	1.0UH K NLC 3225	
LC608	HLC109K00C	L CHIP COIL	1.0UH K NLC 3225	
LC609	HLC100J00A	L CHIP COIL	10UH NLC322522	
LC610	HLC100J00A	L CHIP COIL	10UH NLC322522	
LC611	HLC100J00A	L CHIP COIL	10UH NLC322522	
LC612	HFF301B00A	F CHIP FERRITE BEAD	300 OHM SBK 1608	
LC613	HFF301B00A	F CHIP FERRITE BEAD	300 OHM SBK 1608	
LC614	HFF301B00A	F CHIP FERRITE BEAD	300 OHM SBK 1608	
LC618	HFF301B00A	F CHIP FERRITE BEAD	300 OHM SBK 1608	
LC619	HFF301B00A	F CHIP FERRITE BEAD	300 OHM SBK 1608	
LC620	HFF301B00A	F CHIP FERRITE BEAD	300 OHM SBK 1608	
LC621	HFF301B00A	F CHIP FERRITE BEAD	300 OHM SBK 1608	
LC801	HLC479M02D	L CHIP COIL	4.7UH M SLF0628	
LC802	HLC479M02D	L CHIP COIL	4.7UH M SLF0628	
P201	4859298020	CONN WAFER	12505WR-07A00	
P202	4859297920	CONN WAFER	12505WR-10A00	
P291	49590001S0	CONN WAFER	12505WR-06A00	
PW1	49590009S0	CONN WAFER	12505WR-05A00	
PW201	4859299520	CONN WAFER	12505WS-07P	
PW202	4859297820	CONN WAFER	12505WS-10A00	
QC10	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	
QC201	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	
QC301	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	
QC302	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	
QC303	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	
QC304	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	
QC305	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	
QC307	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	
QC308	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	
QC309	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	
QC602	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	
QC603	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	
QC604	T2SA1037KB	TR CHIP	2SA1037AKT146-R	
QC605	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	
QC606	T2SA1037KB	TR CHIP	2SA1037AKT146-R	
RC213	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RC214	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	
RC253	HRFT101JBA	R CHIP	1/10 100 OHM J 1608	

Service part list

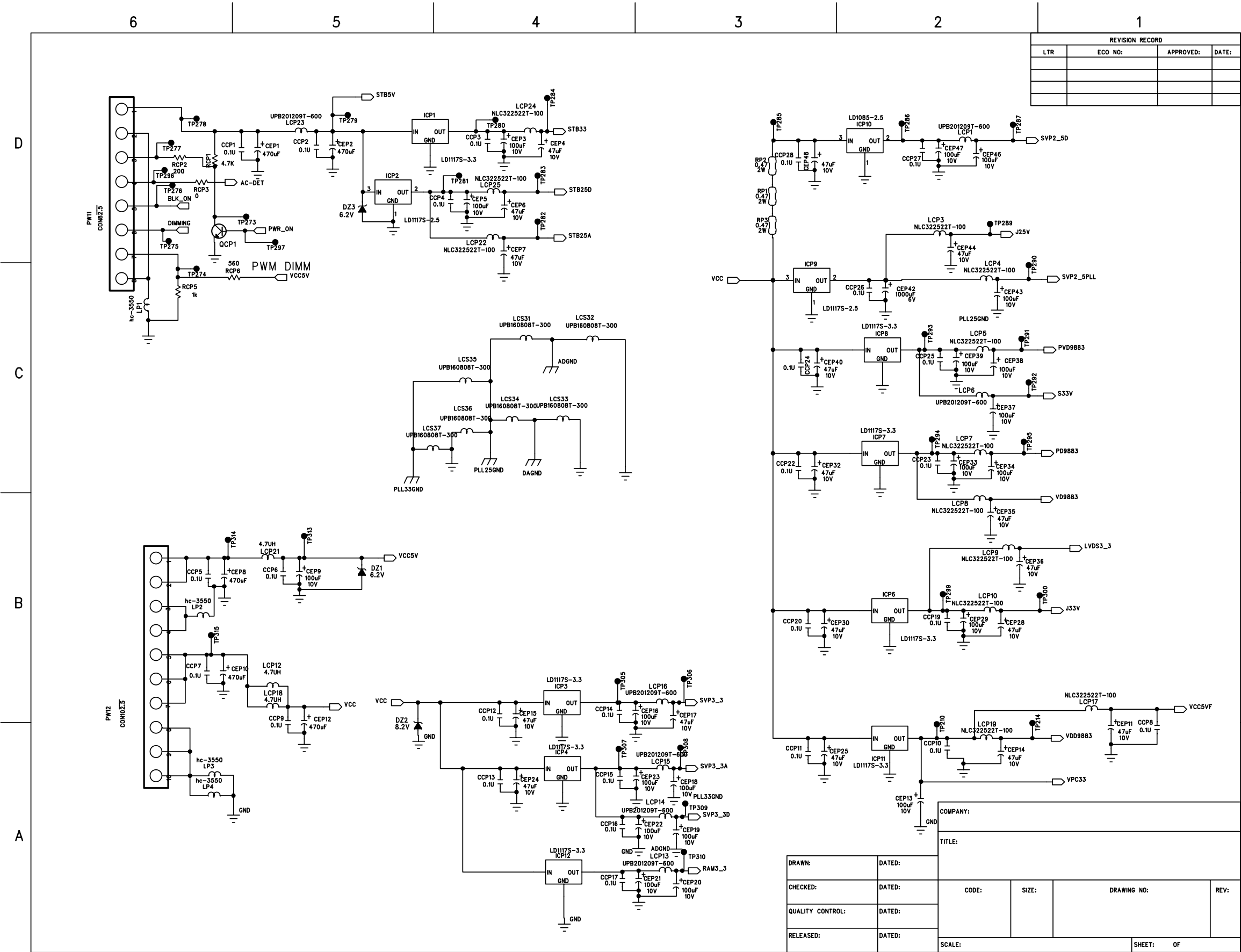
10-2. DLP-3212APSB Difference Part List

PART CODE	LOC	PART NAME	PART DESCRIPTION	DLP-2612APSB	DLP-3212APSB
4852090911	M201	MASK FRONT	ABS GY	PTFMSJE134	
4852090811	M201	MASK FRONT	ABS GY		PTFMSJE125
4857743800	M201A	CUSION PANEL	PVC 400 X 10 T=1.0	PTFMSJE134	PTFMSJE125
4852173011	M211	COVER BACK	ABS GY	PTBCSHE134	
4852172911	M211	COVER BACK	ABS GY		PTBCSHE125
4857817610	M211B	CLOTH BLACK	FELT 300X20X0.7		PTBCSHE125
7002400812	M211B	SCREW MACHINE	TRS 4X8 MFZN BK	PTBCSHE134	
4857817610	M211C	CLOTH BLACK	FELT 300X20X0.7	PTBCSHE134	
4857817611	M211C	CLOTH BLACK	FELT 200X20X0.7		PTBCSHE125
7178301011	M211D	SCREW TAPPTITE	TT2 WAS 3X10 MFZN	PTSBMSG098	
4857817630	M211D	CLOTH BLACK	FELT 400X20X0.7		PTBCSHE125
4857817611	M211D	CLOTH BLACK	FELT 200X20X0.7	PTBCSHE134	
7178301011	M231A	SCREW TAPPTITE	TT2 WAS 3X10 MFZN	PTSBMSG098	PTCACAG099
7172400812	M231B	SCREW TAPTITE	TT2 TRS 4X8 MFZN BK	PTCACAG098	
7172401412	M232A	SCREW TAPPTITE	TT2 TRS 4X14 MFZN BK		PTCACAG099
4853295300	M321	BRKT SUPPORT B	EGI T1.0		PTBCSHE125
7172400811	M321A	SCREW TAPTITE	TT2 TRS 4X8 MFZN		PTBCSHE125
4853295300	M322	BRKT SUPPORT B	EGI T1.0	PTBCSHE134	
7172400811	M322A	SCREW TAPTITE	TT2 TRS 4X8 MFZN	PTBCSHE134	
4853826600	M381	FRAME MAIN PCB	SECC 1T(CORE A)	PTMPMSG098	
4853826800	M381	FRAME MAIN PCB	SECC 1.2T(CORE A)		PTMPMSG099
7002400812	M381A	SCREW MACHINE	TRS 4X8 MFZN BK	PTMPMSG098	PTMPMSG099
7172401412	M381B	SCREW TAPPTITE	TT2 TRS 4X14 MFZN BK	PTCACAG098	PTCACAG099
4853826900	M382	FRAME SURPORT	SECC 2T	PTCACAG098	
4853827100	M382	FRAME SURPORT	SECC 2.0T		PTCACAG099
7172401412	M382A	SCREW TAPPTITE	TT2 TRS 4X14 MFZN BK	PTCACAG098	
7002400812	M382A	SCREW MACHINE	TRS 4X8 MFZN BK		PTBCSHE125
7002401412	M382A	SCREW MACHINE	TRS 4X14 MFZN BK		PTCACAG099
7002400812	M383A	SCREW MACHINE	TRS 4X8 MFZN BK	PTCACAG098	PTCACAG099
7172401412	M383B	SCREW TAPPTITE	TT2 TRS 4X14 MFZN BK	PTCACAG098	
7003401012	M384A	SCREW MACHINE	BIN 4X10 MFZN BK		PTCACAG099
7178301011	M491A	SCREW TAPPTITE	TT2 WAS 3X10 MFZN		PTSBMSG099
7178301011	M492A	SCREW TAPPTITE	TT2 WAS 3X10 MFZN		PTCACAG099
4856013600	M492A	SCREW SPKR FIX	SWRM+SECC	PTCACAG098	
7173301012	M722A	SCREW TAPTITE	TT2 BIN 3X10 MFZN BK	PTCACAG098	PTCACAG099
7173301012	M722B	SCREW TAPTITE	TT2 BIN 3X10 MFZN BK		PTCACAG099
4857913310	M722C	RUBBER CUSHION	"FR RUBBER SPONGE 7X15XT6"		PTCACAG099
485A100572	M722C	IO GASKET	CU+NI T1.0 VER6	PTCACAG098	
4857913310	M722D	RUBBER CUSHION	"FR RUBBER SPONGE 7X15XT6"	PTCACAG098	
485A100572	M722D	IO GASKET	CU+NI T1.0 VER6		PTCACAG099
4858068100	M801	BOX CARTON	DW-3	PTPKCPE134	
4858068200	M801	BOX CARTON	DW-3		PTPKCPE125
485819BU00	M811	PAD	EPS	PTPKCPE134	
485819BV00	M811	PAD	EPS		PTPKCPE125
4858215601	M822	BAG P.E	"PE FOAM t0.5x1600x1270"	PTPKCPE134	
4958200701	M822	BAG P.E	FOAM T0.5X1880X1380		PTPKCPE125
4850705N35	PC6	CONNECTOR	"12505HS-05+12505HS-05+ULW+CORE=800"	PTSBMSG098	
4850705N36	PC6	CONNECTOR	"12505HS-05+12505HS-05+ULW+CORE=900"		PTSBMSG099
4850706N26	PC7	CONNECTOR	"12505HS-06+12505HS-06+ULW+CORE=550"	PTSBMSG098	
4850706N27	PC7	CONNECTOR	"12505HS-06+12505HS-06+ULW+CORE=650"		PTSBMSG099
485LD13260	V901	LCD PANEL	T260XW02 V0	PTCACAG098	
485LD12321	V901	LCD PANEL	T315XW01 V1		PTCACAG099
PTBCSHE134	ZZ120	COVER BACK AS	DLP-2612SPS	DLP-2612APSB	
PTBCSHE125	ZZ120	COVER BACK AS	DLP-3212SPS		DLP-3212APSB
PTPKCPE134	ZZ130	PACKING AS	DLP-2612SPS	DLP-2612APSB	
PTPKCPE125	ZZ130	PACKING AS	DLP-3212SPS		DLP-3212APSB
PTCACAG098	ZZ140	CABINET AS	DLP-2612APSB	DLP-2612APSB	
PTCACAG099	ZZ140	CABINET AS	DLP-3212APSB		DLP-3212APSB
PTFMSJE134	ZZ200	MASK FRONT AS	DLP-2612SPS	PTCACAG098	
PTMPJBG098	ZZ200	PCB MAIN M-10 AS	DLP-2612APSB	PTMPJOG098	
PTMPJOG098	ZZ200	PCB MAIN (RHU) AS	DLP-2612APSB	PTMPJ2G098	
PTMPJ1G098	ZZ200	"PCB MAIN CHIP MOUNT A AS"	DLP-2612APSB	PTMPJAG098	
PTMPJRG098	ZZ200	PCB MAIN RADIAL AS	DLP-2612APSB	PTMPJBG098	
PTMPJAG098	ZZ200	PCB MAIN AXIAL AS	DLP-2612APSB	PTMPJRG098	
PTMPJ2G098	ZZ200	"PCB MAIN CHIP MOUNT B AS"	DLP-2612APSB	PTMPMSG098	
PTSBJBG098	ZZ200	PCB SUB M-10 AS	DLP-2612APSB	PTSBJOG098	
PTSBJOG098	ZZ200	PCB SUB RHU AS	DLP-2612APSB	PTSBJ2G098	
PTSBJ1G098	ZZ200	PCB SUB CHIP A AS	DLP-2612APSB	PTSBJAG098	

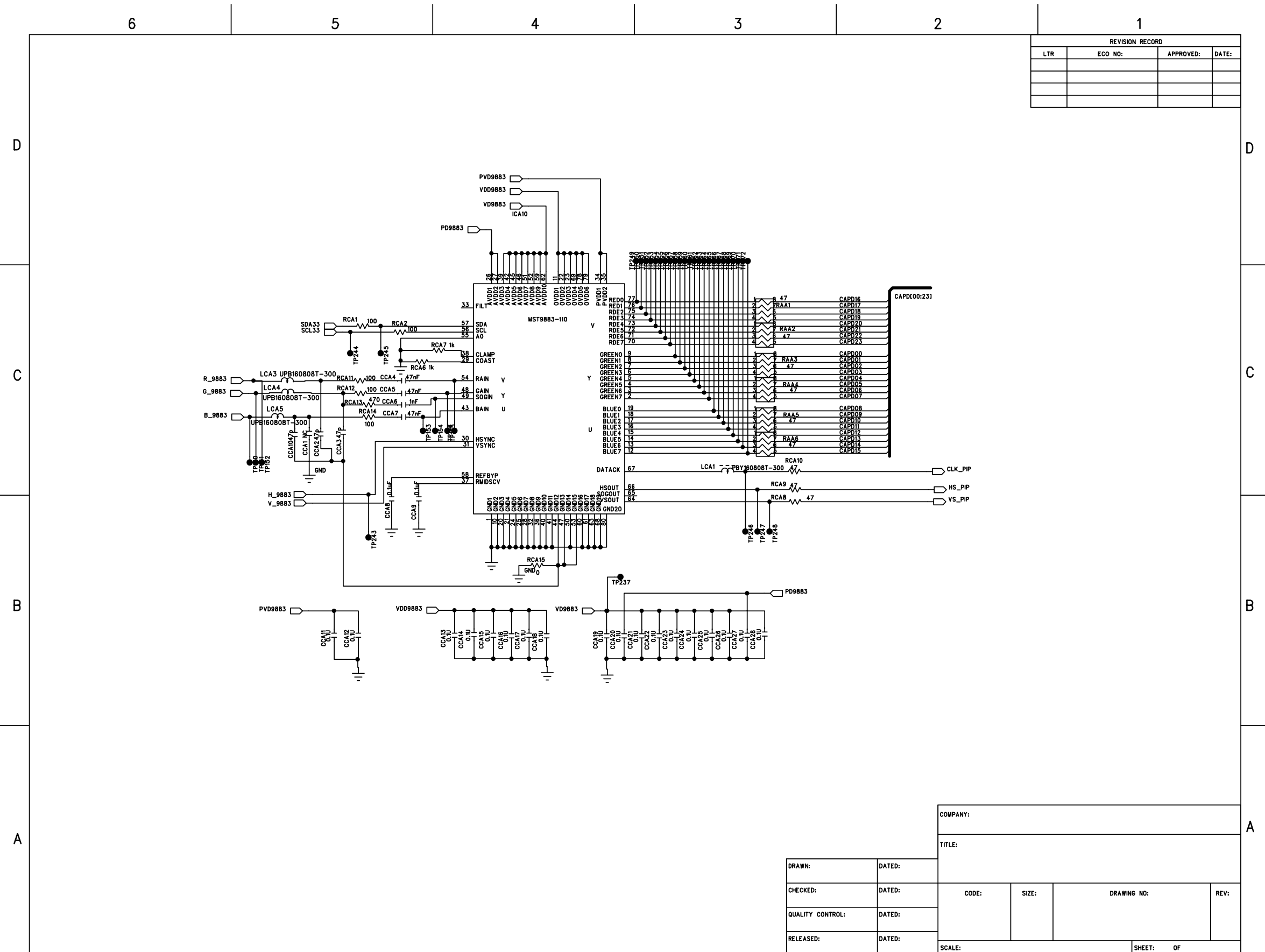
Service part list

PART CODE	LOC	PART NAME	PART DESCRIPTION	DLP-2612APSB	DLP-3212APSB
PTSBJRG098	ZZ200	PCB SUB RADIAL AS	DLP-2612APSB	PTSBJBG098	
PTSBJAG098	ZZ200	PCB SUB AXIAL AS	DLP-2612APSB	PTSBJRG098	
PTSBJ2G098	ZZ200	PCB SUB CHIP B AS	DLP-2612APSB	PTSBMSG098	
PTMPJ0G099	ZZ200	PCB MAIN (RHU) AS	DLP-3212APSB		PTMPJ2G099
PTMPJ1G099	ZZ200	"PCB MAIN CHIP MOUNT A AS"	DLP-3212APSB		PTMPJAG099
PTMPJ2G099	ZZ200	"PCB MAIN CHIP MOUNT B AS"	DLP-3212APSB		PTMPMSG099
PTMPJAG099	ZZ200	PCB MAIN AXIAL AS	DLP-3212APSB		PTMPJRG099
PTMPJBG099	ZZ200	PCB MAIN M-10 AS	DLP-3212APSB		PTMPJ0G099
PTMPJRG099	ZZ200	PCB MAIN RADIAL AS	DLP-3212APSB		PTMPJBG099
PTSBJ0G099	ZZ200	PCB SUB RHU AS	DLP-3212APSB		PTSBJ2G099
PTSBJ1G099	ZZ200	PCB SUB CHIP A AS	DLP-3212APSB		PTSBJAG099
PTSBJ2G099	ZZ200	PCB SUB CHIP B AS	DLP-3212APSB		PTSBMSG099
PTSBJAG099	ZZ200	PCB SUB AXIAL AS	DLP-3212APSB		PTSBJRG099
PTSBJBG099	ZZ200	PCB SUB M-10 AS	DLP-3212APSB		PTSBJ0G099
PTSBJRG099	ZZ200	PCB SUB RADIAL AS	DLP-3212APSB		PTSBJBG099
PTFMSJE125	ZZ200	MASK FRONT AS	DLP-3212SPS		PTCACAG099
PTMPMSG098	ZZ290	"PCB MAIN MANUAL AS"	DLP-2612APSB	PTCACAG098	
PTMPMSG099	ZZ290	"PCB MAIN MANUAL AS"	DLP-3212APSB		PTCACAG099
PTSBMSG098	ZZ300	"PCB SUB MANUAL AS"	DLP-2612APSB	PTCACAG098	
PTSBMSG099	ZZ300	"PCB SUB MANUAL AS"	DLP-3212APSB		PTCACAG099

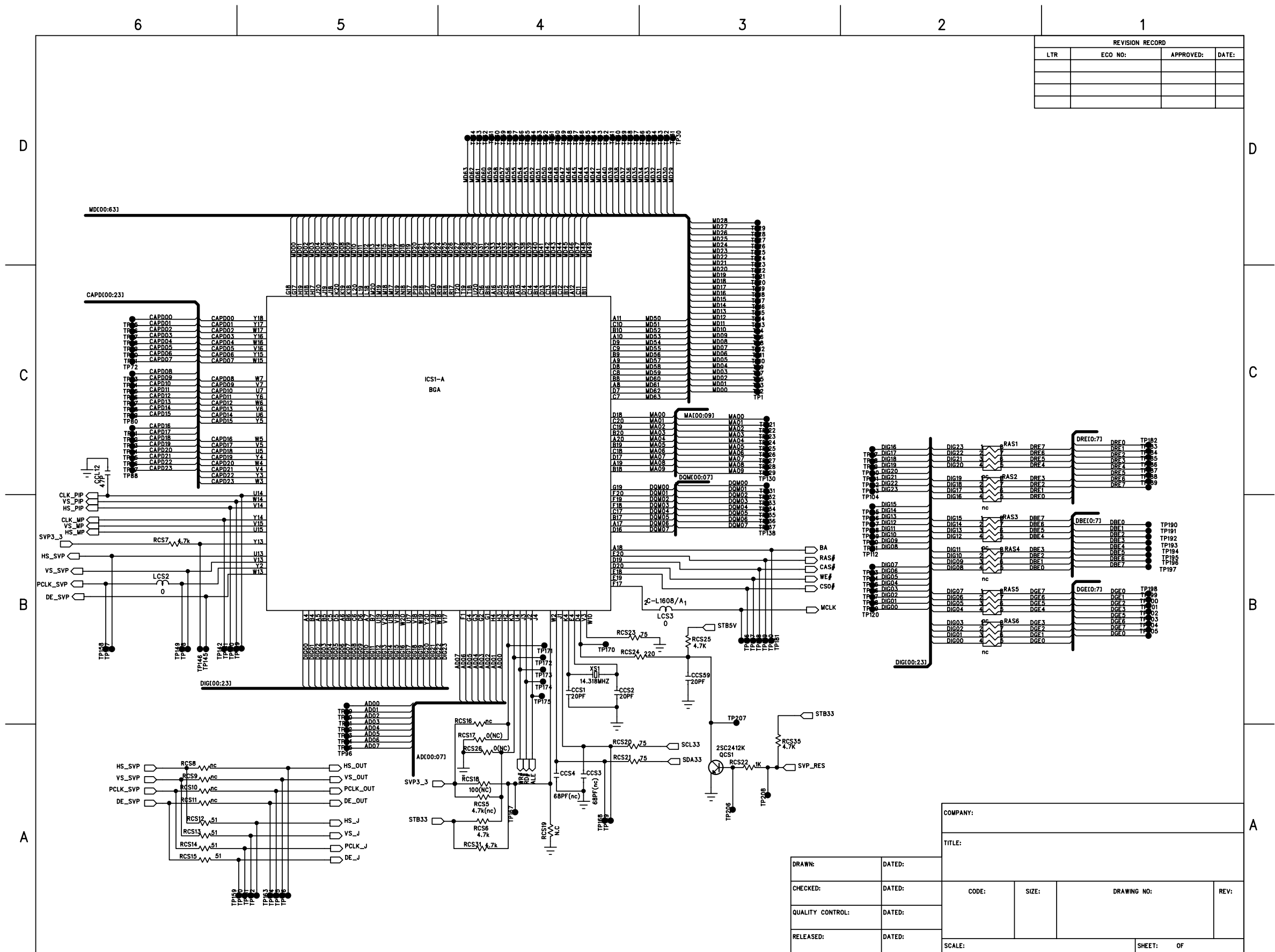
11. SCHEMATIC DIAGRAM



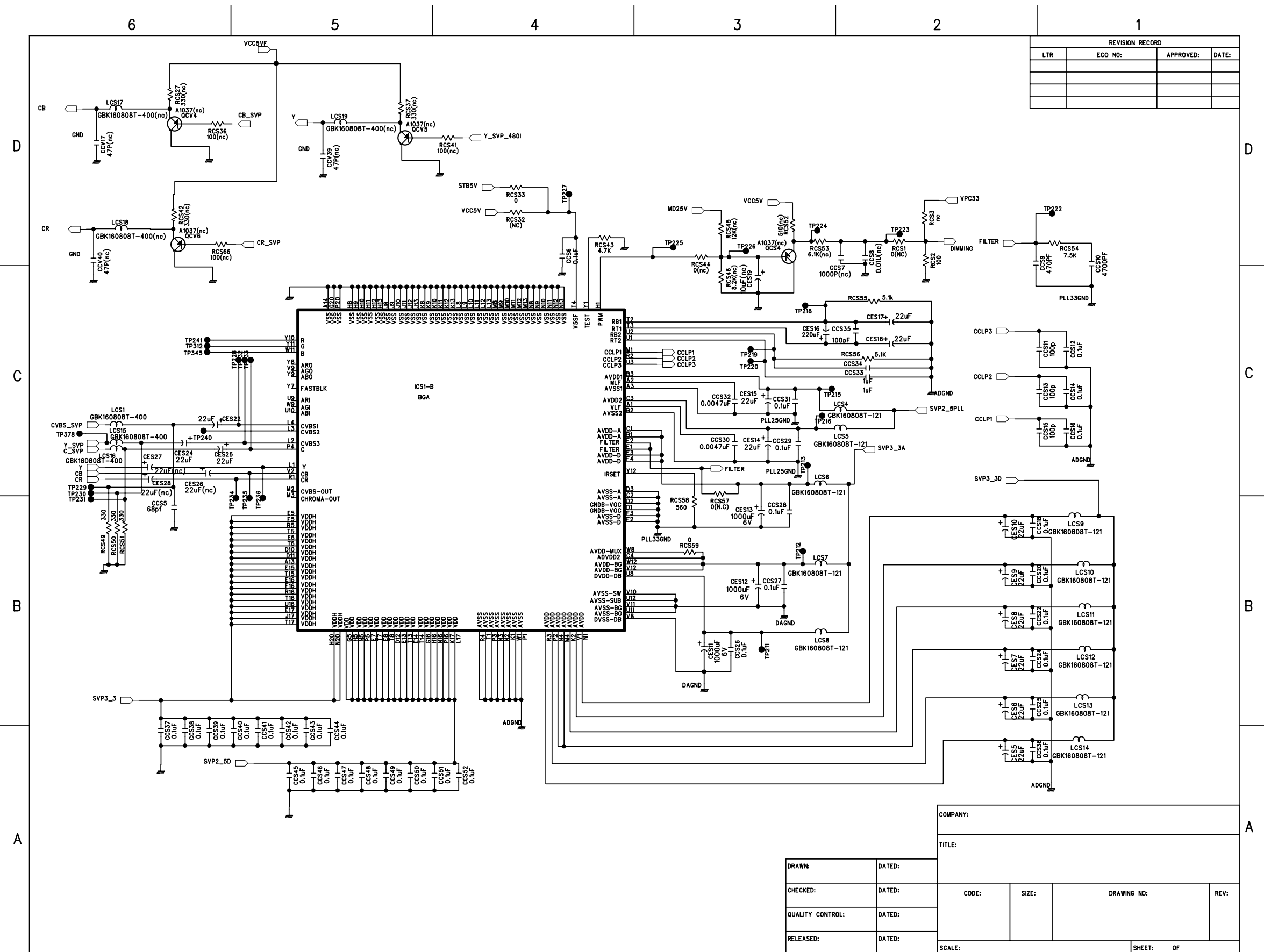
SCHEMATIC DIAGRAM



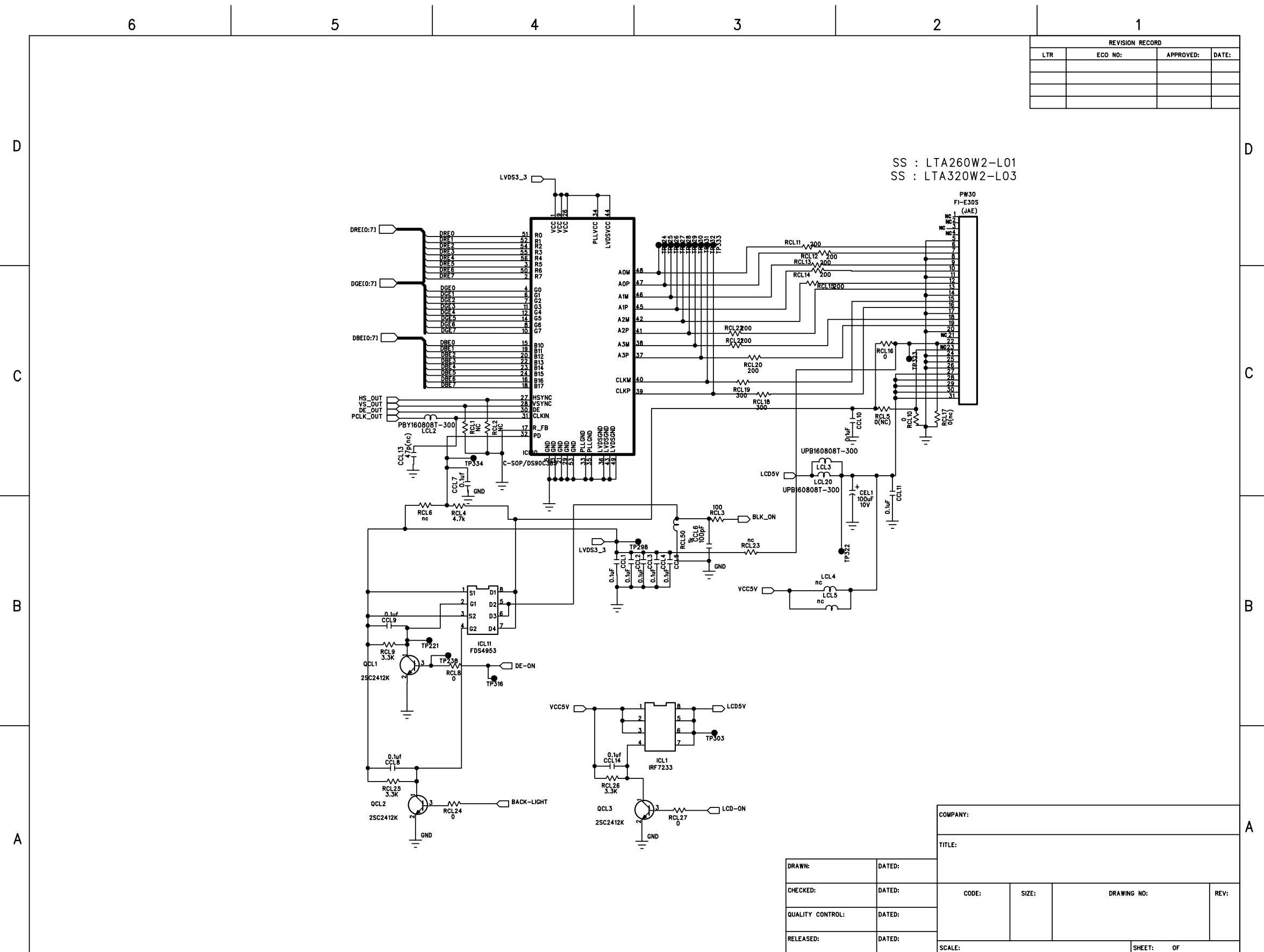
SCHEMATIC DIAGRAM



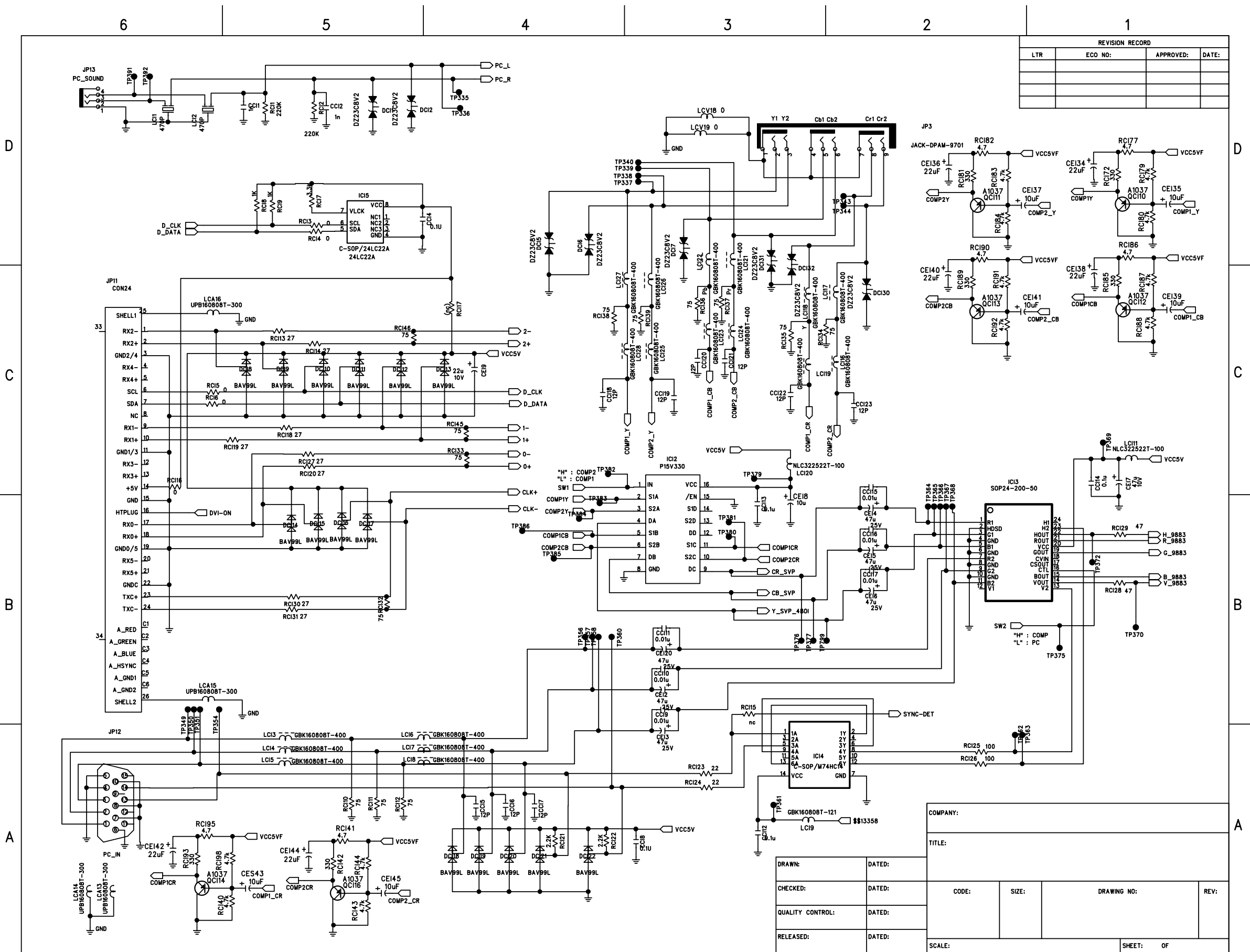
SCHEMATIC DIAGRAM



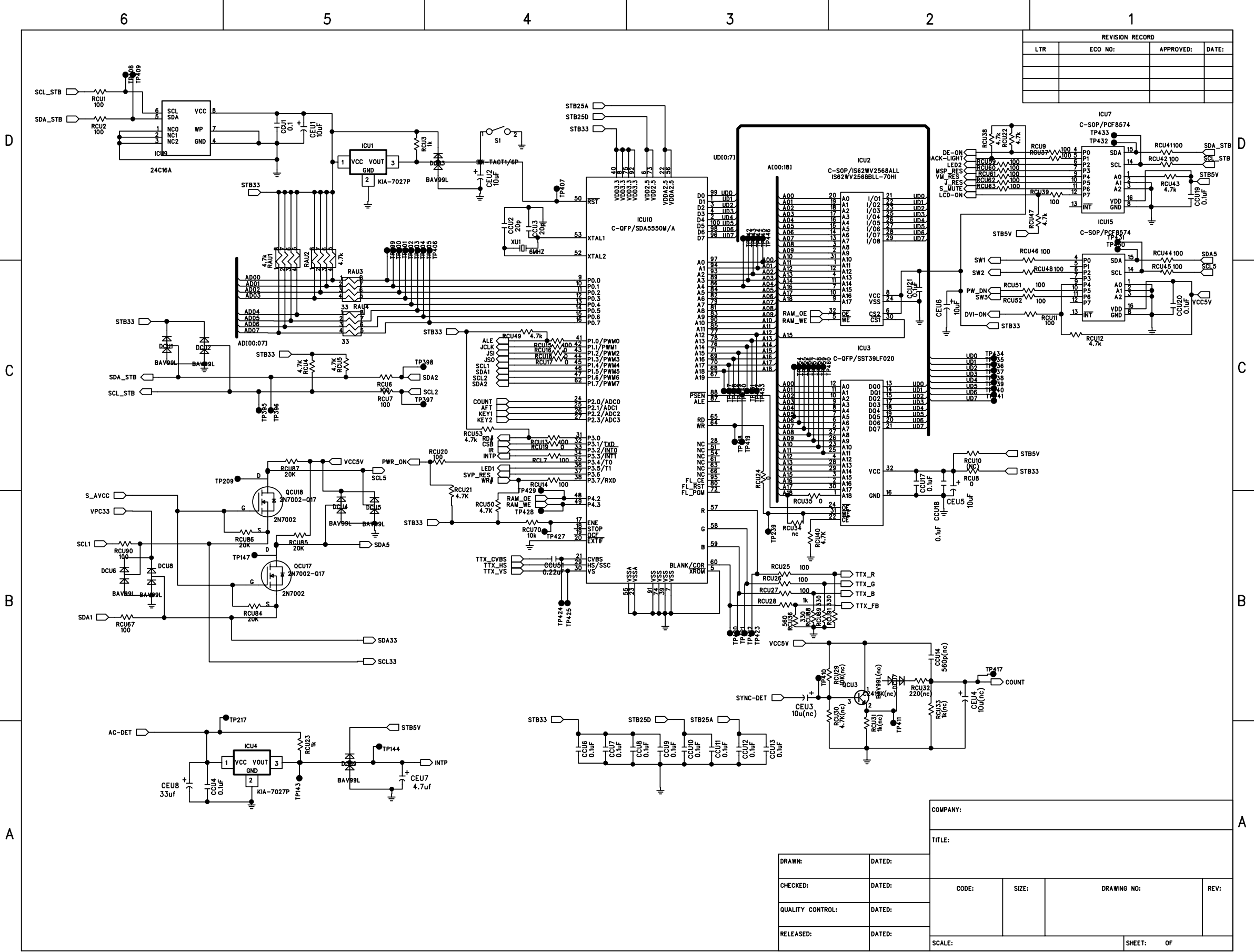
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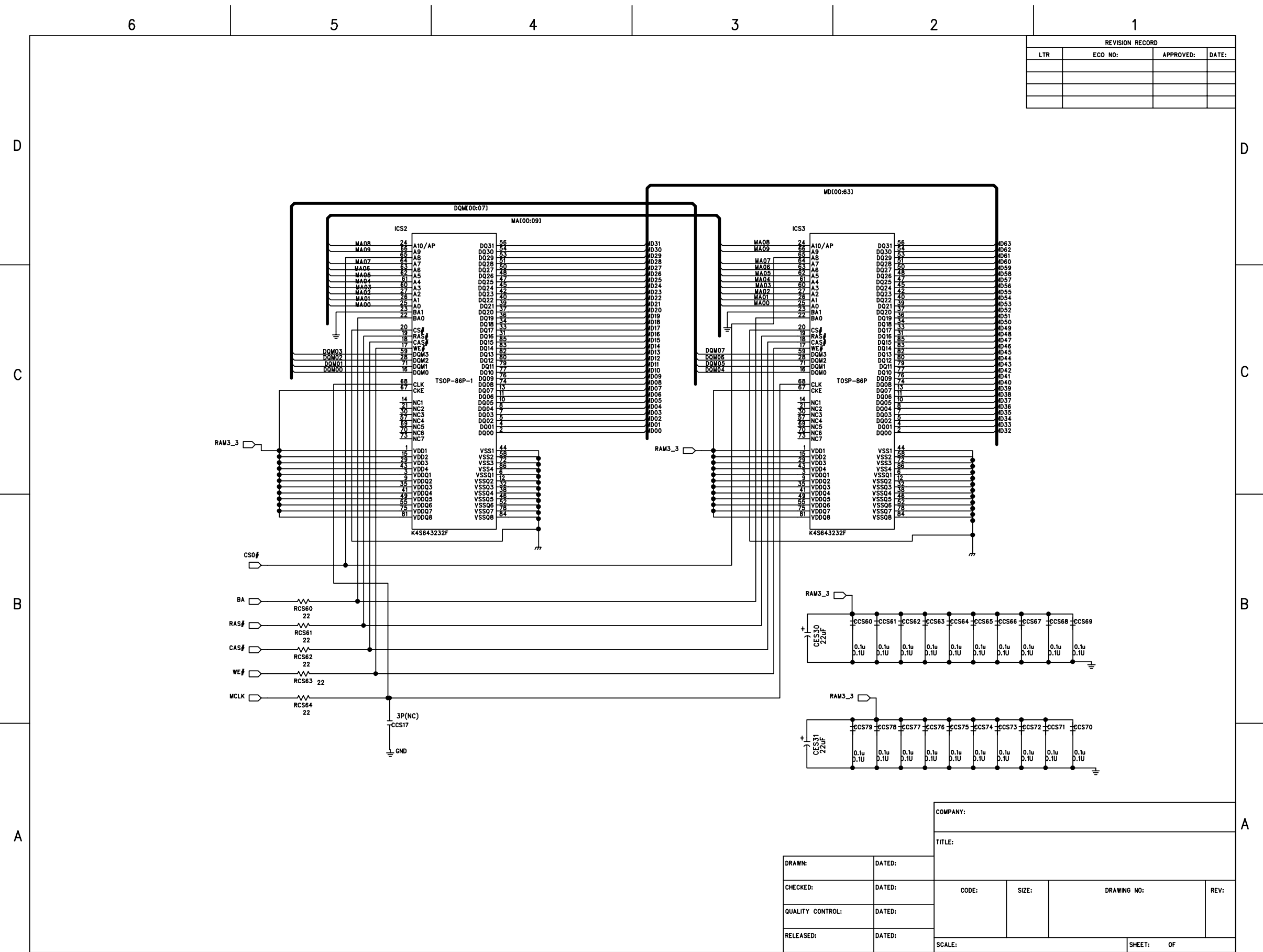
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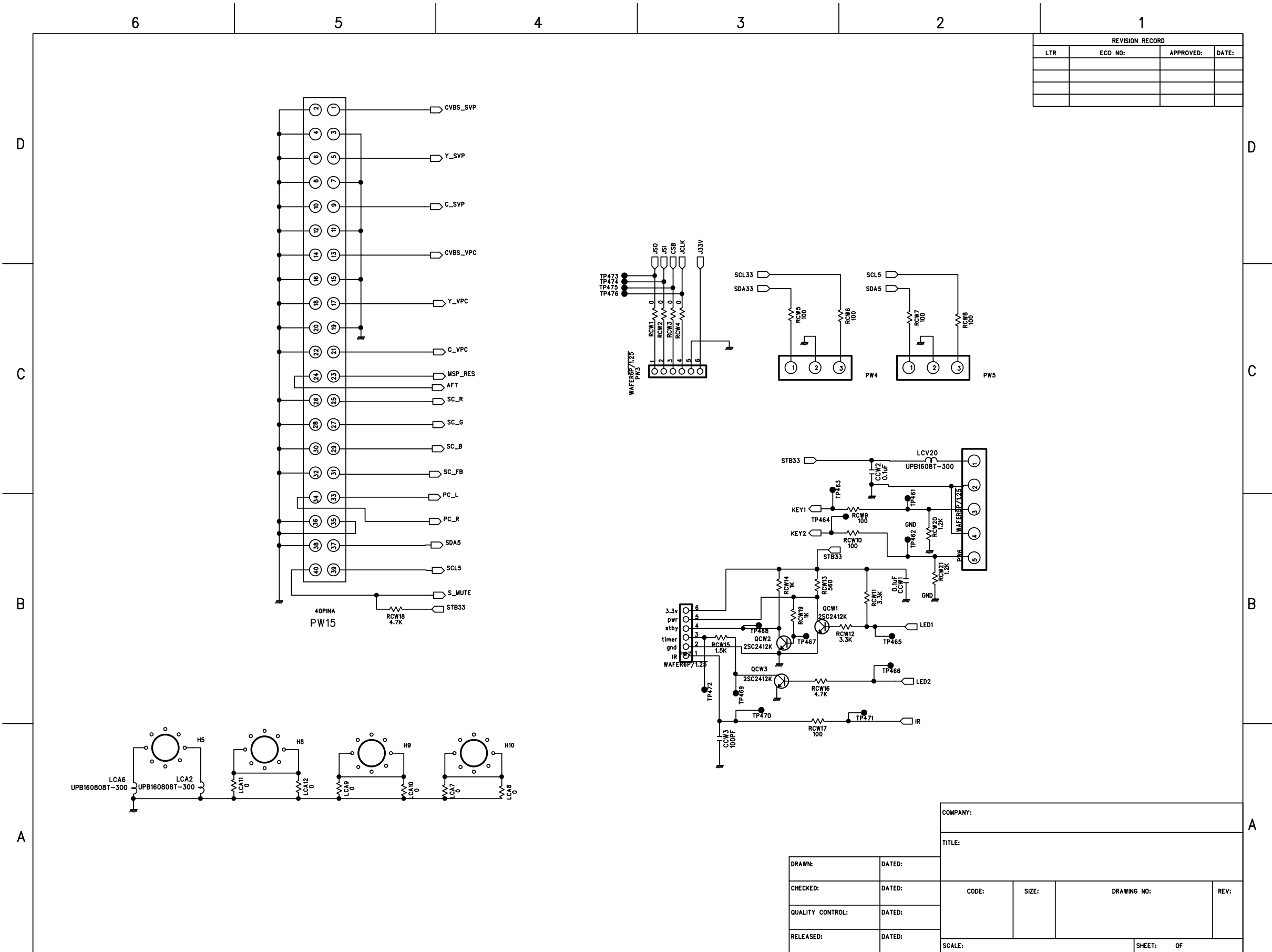
SCHEMATIC DIAGRAM



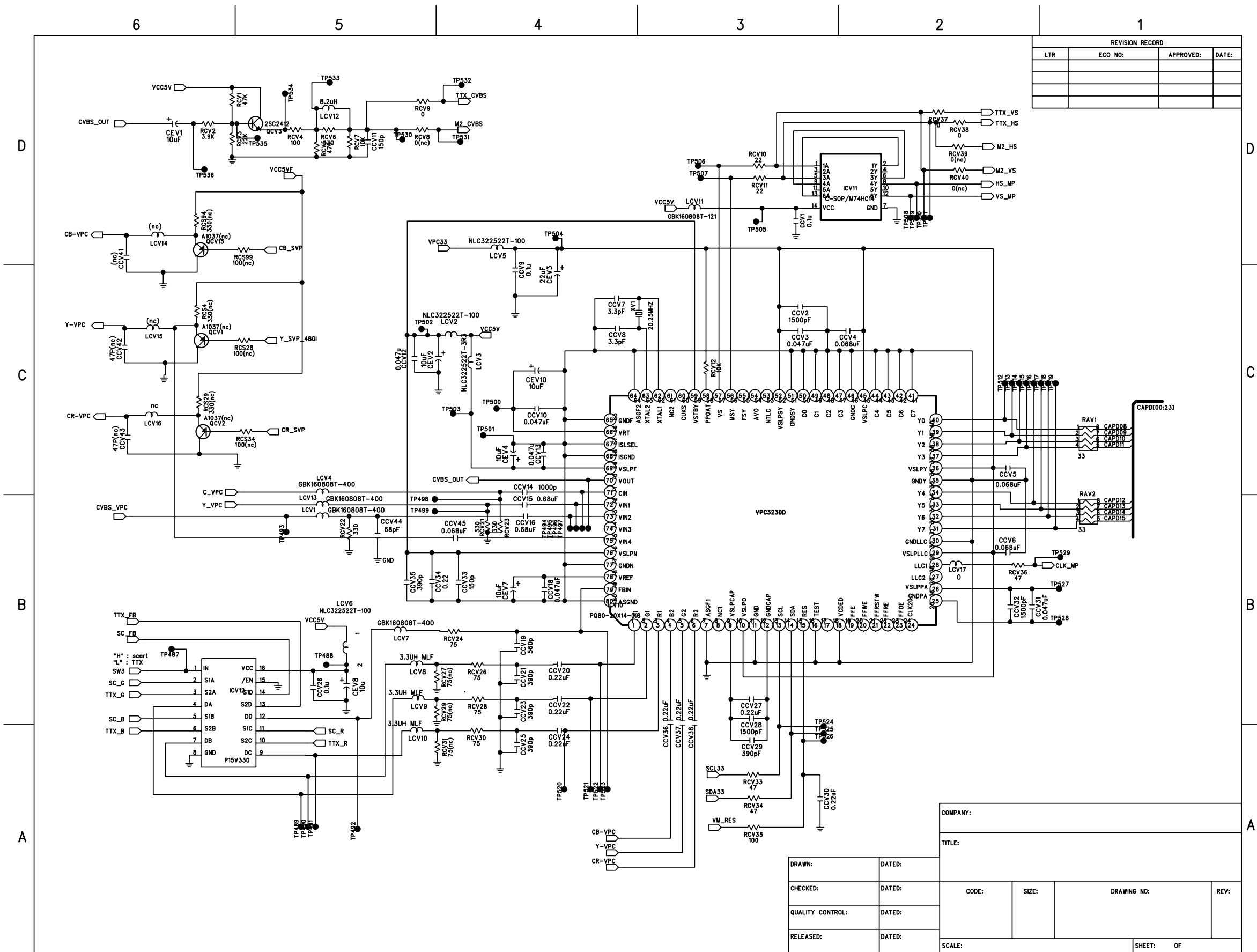
SCHEMATIC DIAGRAM



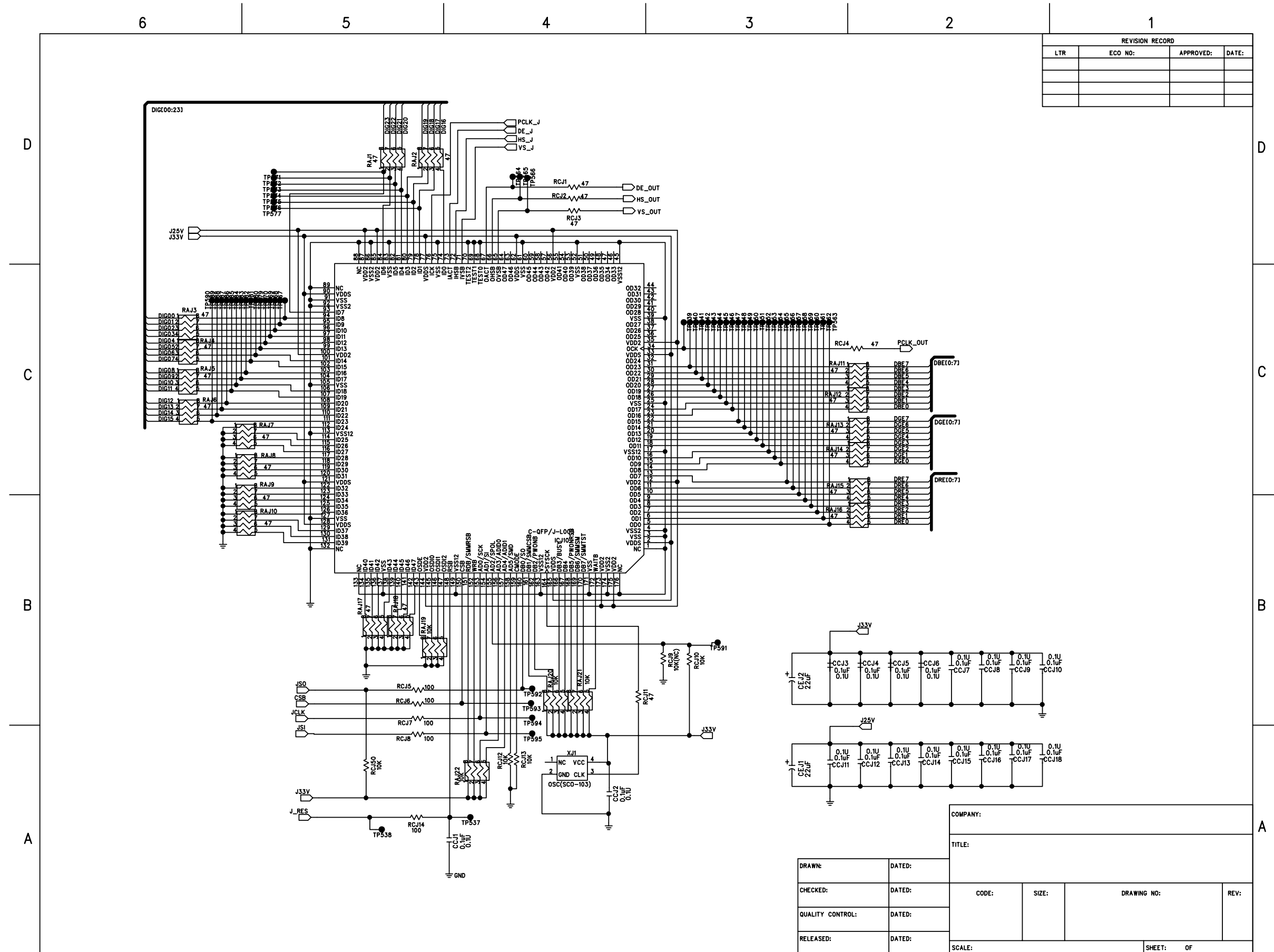
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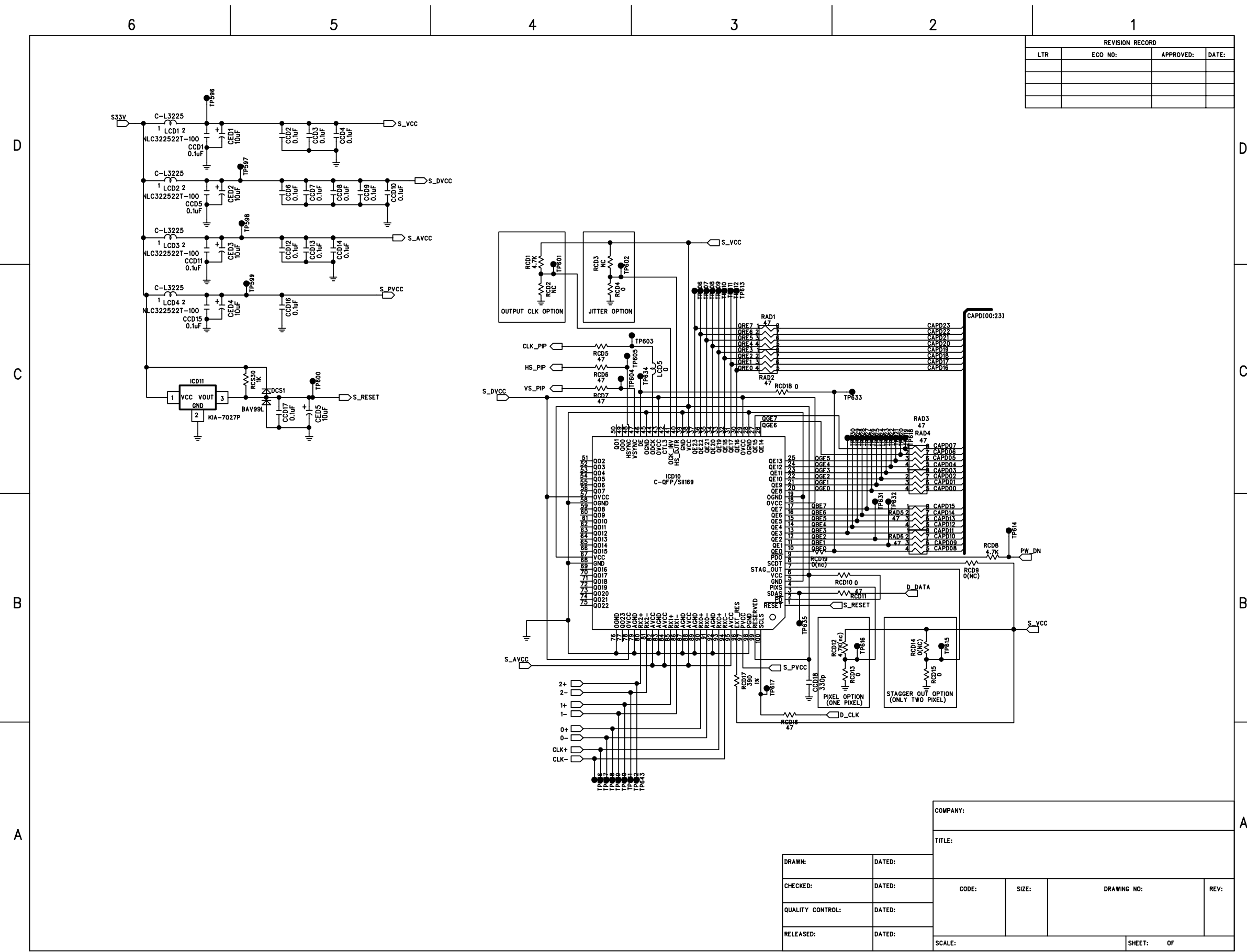
SCHEMATIC DIAGRAM



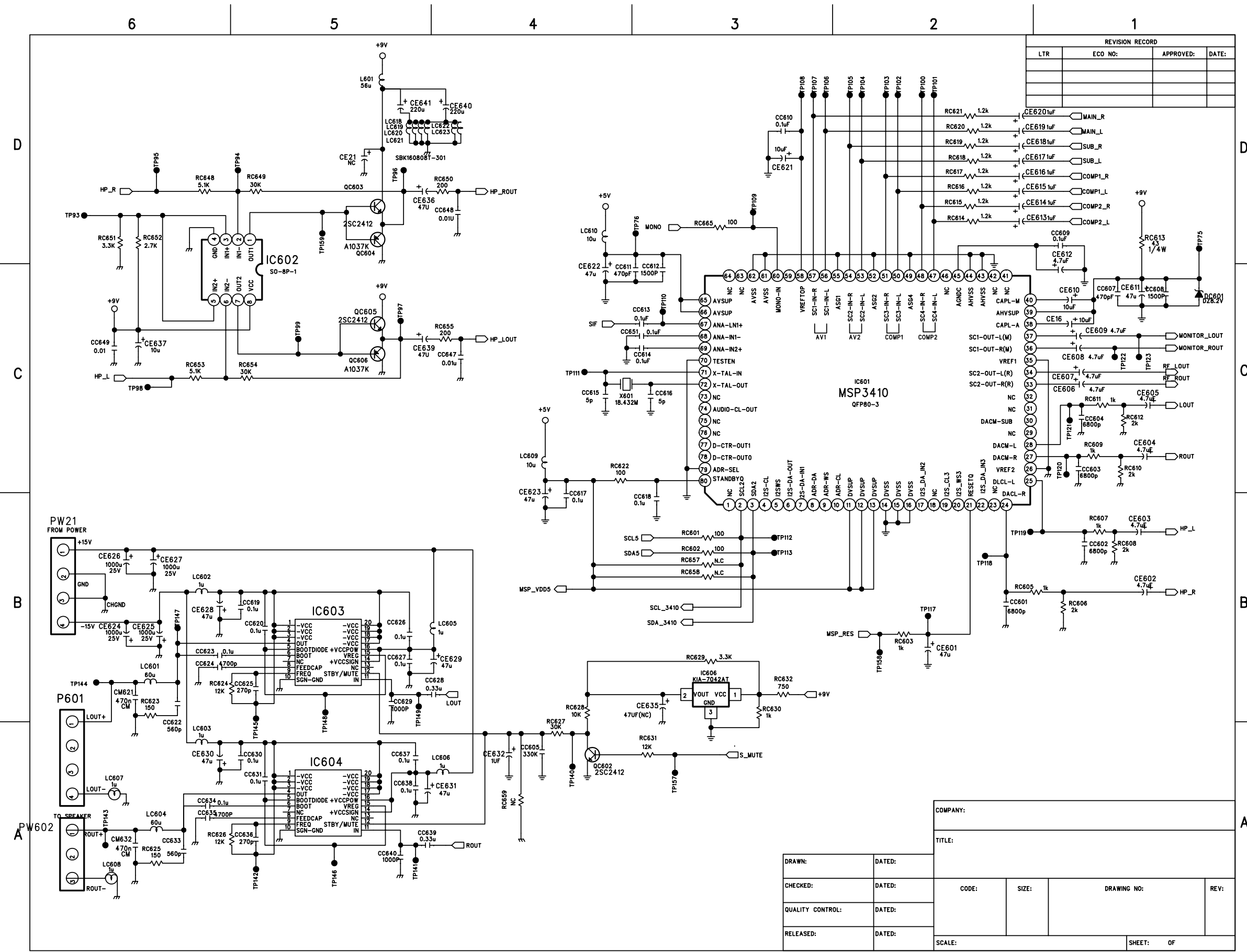
SCHEMATIC DIAGRAM



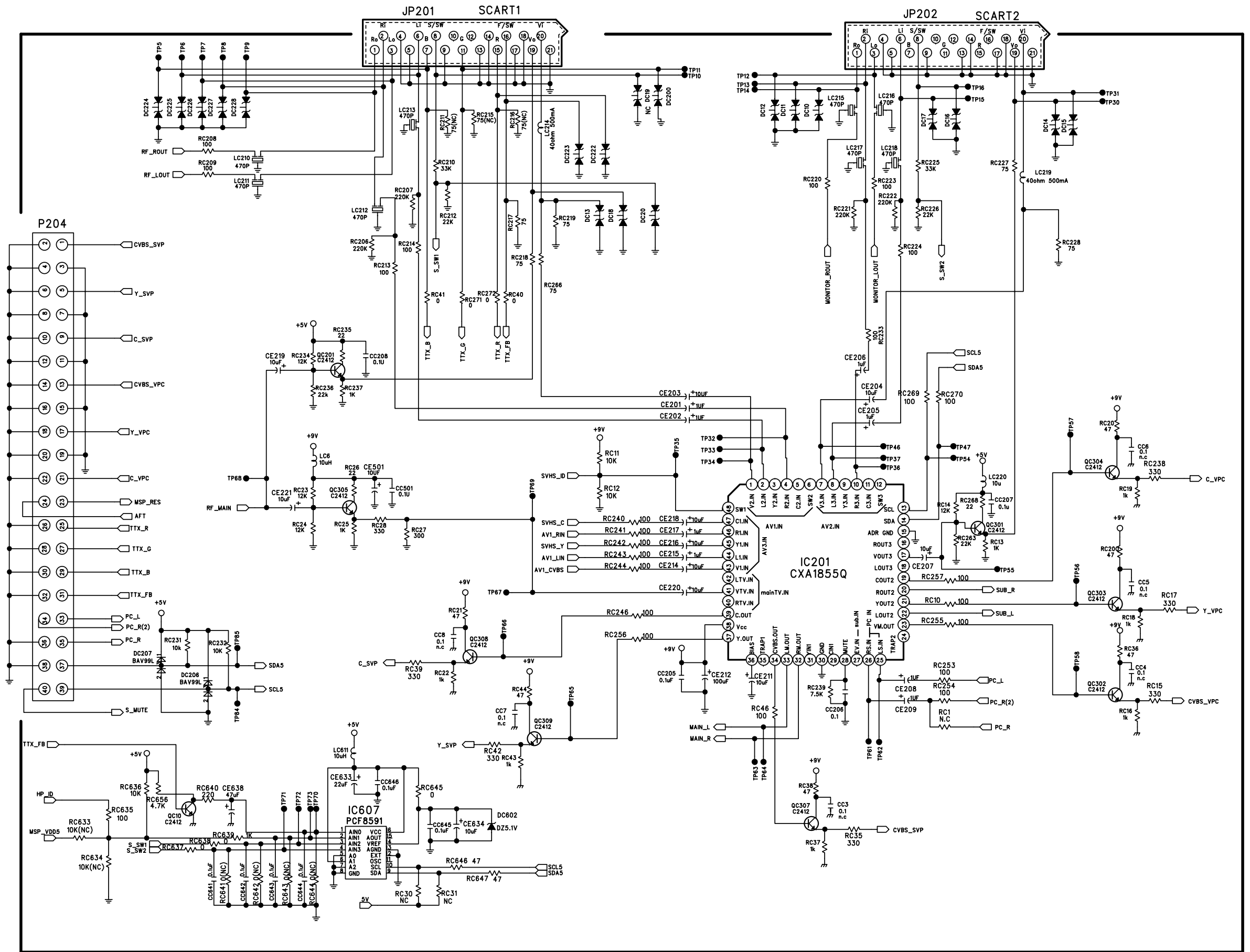
SCHEMATIC DIAGRAM



SCHEMATIC DIAGRAM

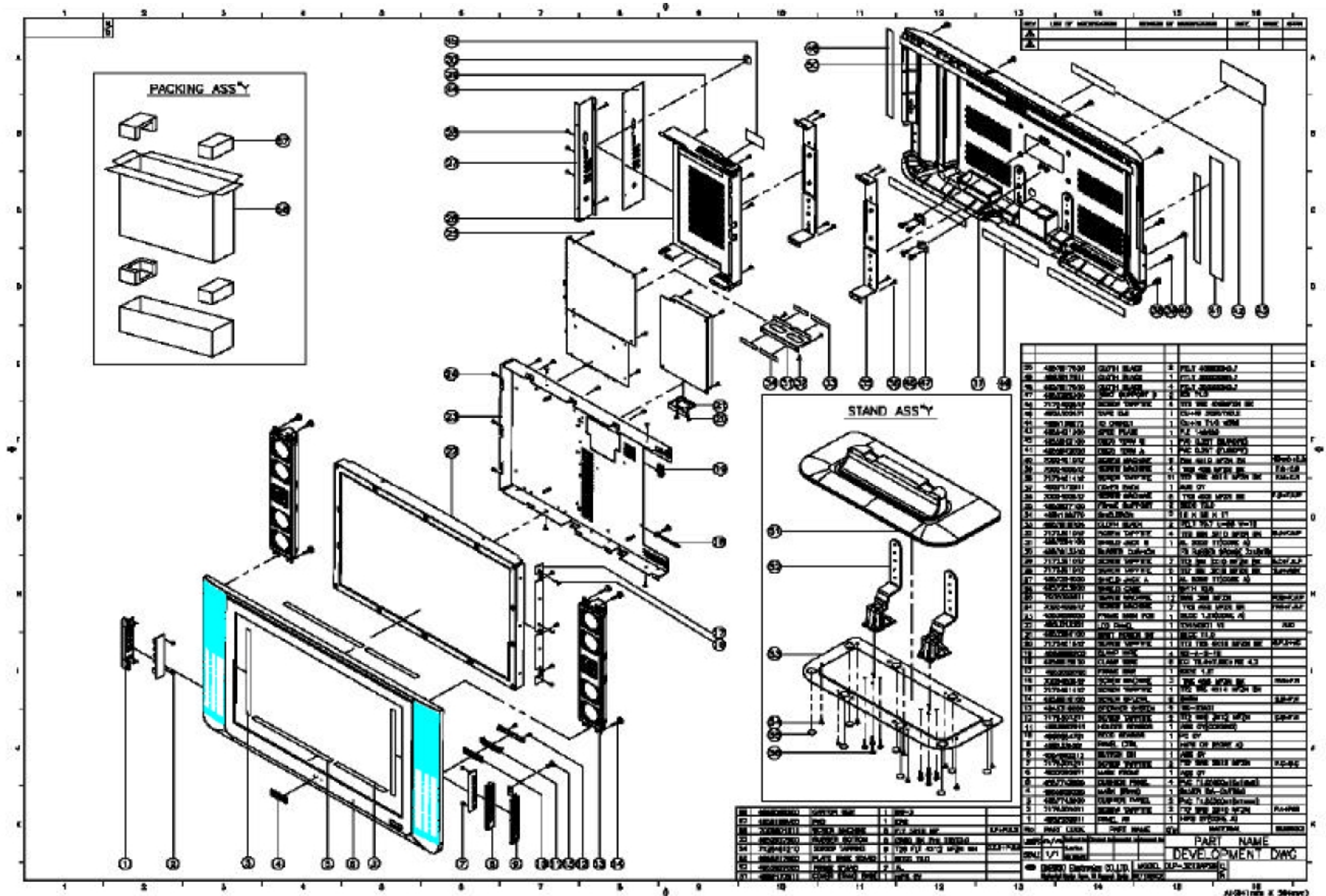


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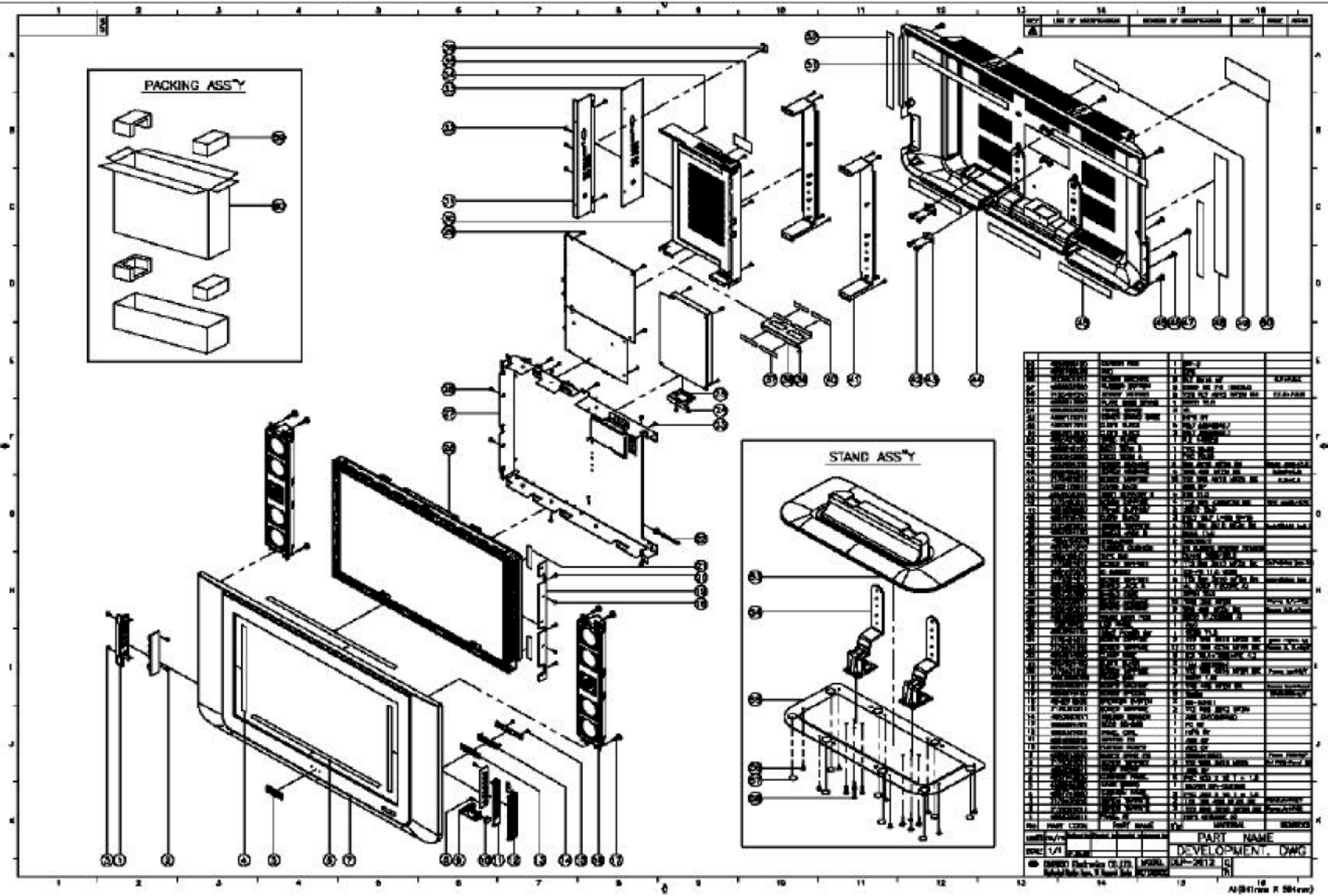
12. EXPLODED VIEW

10.1 DLP-3212APSB



EXPLODED VIEW

10.2 DLP-2612APSB





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